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REGULATORY STATEMENT

Product name: Rombest® WHITE 161NG

Product description: White masterbatch in pellet form.

1.EUROPEAN FOOD CONTACT REGULATIONS

Regulation (E.C) No. 1935/2004 & Regulation (E.C) No. 10/2011

Regulation No 1935/2004/EC of the European Parliament and of the Council of 27 October 2004, is a framework Regulation setting general rules and requirements for all materials and articles intended to come in contact with food.

According to Article 3: Materials and articles, including active and intelligent materials, shall be manufactured in compliance with good manufacturing practice so that, under foreseeable conditions of use, they do not transfer their constituents to food in quantities which could:

a) Endanger human health or
b) Bring out an unacceptable change in the composition of food or
c) Bring out deterioration in the organoleptic characteristics of the final product.

For plastic articles & materials, these requirements are laid down and further specified in Regulation No. 10/2011 published on 14 January 2011 as amended up to Regulation (EU) No 2025/351.

The above product complies with the relevant requirements of Regulation (EC) No 1935/2004 in as far as:

- is produced using Good Manufacturing Practice as required in article 3.1 of Regulation (EC) No 1935/2004 and meets the guidelines for Good Manufacturing Practice as specified in Regulation (EC) No 2023/2006 (on good manufacturing practice for materials and articles intended to come in contact with food).

- With respect to Regulation (EU) 2022/1616, above product is made from raw materials/monomers included in the Union list. No individual recycling processes requiring authorization are used in the production of above product.

- the production of the above grade ensures traceability as required in article 17.1 of Regulation (EC) No 1935/2004.

According to the information received from our suppliers, the ingredients in the formulation of ROMBEST WHITE 161NG fulfill the following:

Carrier: ROMBEST WHITE 161NG is based on a PE carrier produced from substances included in the UNION LIST of authorized substances (Section I, Annex 1) of the "EC Commission Regulation 10/2011 relating to Plastic Materials and Articles intended to come in contact with food" as amended up to Regulation (EU) No 2025/351.

Additives: All additives present in the formulation of ROMBEST WHITE 161NG are included in the Union List of authorized monomers and additives of Commission Regulation 10/2011 and amendments.

Pigments: According to our supplier's information, the pigment present in the formulation of ROMBEST WHITE 161NG fulfils the following:

- Commission Regulation (EU)10/2011 as amended up to Regulation (EU) No 2025/351.
- Resolution AP (89) 1 (Europe)

Migration

Specific Migration Limits (SML):

SML and/or other restrictions for the following substances used should be taken into consideration:

Ingredient	**Ref No/ANNEX**	**SML (mg/kg) of food or food simulant**
(Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate)	68320/ANNEX I	6 – Lipophilic substances
1,1,1-trimethylolpropane	13380/25600/94960/ ANNEX I	6
Zinc Stearate	Salt of 89090/ANNEX I	5 - Zinc
Aluminum	ANNEX II	1

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Overall Migration Limits (OML): Since the above-mentioned product – ROMBEST WHITE 161NG- is only a small part of the final product, our responsibility as masterbatch producer cannot be extended to include the articles in which our client uses our products. Since the overall migration depends on the type of material used or on the present of other components as well as the processing conditions food type etc., migration tests must be carried out in the final material or article using the right food simulants under foreseeable conditions of use to establish the regulatory compliance of the end product.

Dual Use Additives: In the above-mentioned product, a dual use additive is not present.

Primary aromatic amines are not used in the manufacturing process and are not to be expected in this product.

2. EU MEMBER STATES – GERMANY

Carrier: As for the compliance status with EU Member States laws and/or recommendations where specific requirements exist for substances other than monomers and additives, the following can be stated:

The polymer production aids ("PPA") possibly present in the above polymer are permitted in Germany:

- "Bedarfsgegenständeverordnung in der Fassung der Bekanntmachung vom 23. Dezember 1997 (BGBl. 1998 I S. 5)", as amended up to "Verordnung vom 24.06.2013 (BGBl. I S. 1682)"

- BfR Empfehlung III "Polyethylen" from the Bundesinstitut fuer Risikobewertung "BfR". 01.04.2021

Additives: No specific recommendations.

Pigments: Bundesinstitut für Risikobewertung, Empfehlung IX (Farbmittel zum Einfärben von Kunststoffen und anderen Polymeren für Bedarfsgegenstände) stand vom 01.06.20192.

3. SWITZERLAND

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Carrier: The composition of the polymer grade meets the requirements of the Swiss Ordinance on material and objects in Plastic, SR 817.023.21 of 16. Dezember 2016 (Stand am 1. Februar 2024)

- The composition of the base polymeric component(s) in this polymer grade complies with the positive lists for allowed monomers in the above referenced legislation.

- The additives that may be present comply with the lists for additives in the above referenced legislation, unless explicitly referred to in the additives note below. Information regarding additives subject to a restriction in food (dual use additives) and information on lipophilic substances are not applicable in Switzerland.

Monomer restrictions:

None of the monomers used in the production of this polymer is subject to a Specific Migration Limit (SML).

- Presence of additives with SML

The above polymer grade does contain one or more additive(s) that is/are subject to a Specific Migration Limit (SML).

- Presence of dual use additives

None of the additives intentionally used in this polymer grade is subject to a restriction in food as referred to in Article 11.3 of Regulation (EU) 10/2011.

This note contains information relative to the presence of additives subject to a restriction according to Regulation (EU) 10/2011, as described in this statement.

Additive : Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate EC Ref. No : 68320 Max. conc.* : 300 ppm Restriction : SML = 6 mg/kg food - Lipophilic substance

Additive : Zinc Stearate EC Ref No : Salt of 89040 Max. conc.* : 600 ppm Restriction : SML = 5 mg/kg food - Expressed as Zinc

Additives: The additive used in the formulation of the above product has been listed on the The Swiss List of Substances Permitted for the Manufacture of Materials and Objects in Plastic and Related Requirements (Anhang 2)

Pigment: According to our supplier's information, the pigment present in the formulation of ROMBEST WHITE 161NG in Swiss Ordinance SR 817.023.21 on Materials and Articles in Contact with Food is authorized as a colorant in Annexes 2-Plastic articles

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4. JAPAN FOOD CONTACT REGULATIONS

According to the information received from our suppliers, the ingredients in the formulation of ROMBEST WHITE 161NG fulfill the following:

Carrier: With regard to the compliance status of the carrier of product referenced above with the regulation(s) identified below the following can be declared:

Amended Japan Food Sanitation Act (Issue Date: Nov 30, 2023, Implementation date: June 1st, 2025)

The base polymer(s) and the additive(s) intentionally used in the product are listed in the published Positive List (Appendix 1 of the "Standards for the utensils or containers and packaging or the raw materials (amended on Nov 30, 2023)" under Food Sanitation Act, Article 18, Section 3) or are exempt. The dosage(s) of additive(s) are below the maximum level of use specified in the Positive List for this product.

The manufacturer of food-contact materials and articles made from or containing this product grade must ensure that the finished materials or articles meet the regulatory requirement under the Japan Food Sanitation Act.

Additives: The additive used in the formulation of the above product has been listed on the “Appendix Table 1” (Date: April 28, 2020) of the Notification of Ministry of Health, Labor and Welfare, No.196 in 2020, relating to the Food Sanitation Law in Japan.

Pigments: According to our supplier’s information, the pigment present in the formulation of ROMBEST WHITE 161NG is not subject to the MHLW Positive Lists adopted on June 1st, 2020. (colorants are exempt from listing).Manufacturers using the Product including its surface treatments in the manufacture of plastics, coatings, inks and adhesives materials and articles intended to come into contact with food, must ensure that the colorant is sufficiently integrated within the matrix of the final materials and articles so as to preclude any migration or leaching of the product into foodstuffs under normal conditions of use, based on the current management method according to MHLW notification No. 370.

It is responsibility of the manufacturer of the finished article and the filler to ensure that materials and articles, which in their finished state, are intended to be brought into contact with foodstuffs or are brought into contact with foodstuffs, must not transfer any components to the packed foodstuff in quantities that could endanger human health, or bring about an unacceptable change in the composition or deterioration in organoleptic properties.

5. MERCOSUR FOOD CONTACT RESOLUTIONS

According to the information received from our suppliers, the ingredients in the formulation of ROMBEST WHITE 161NG fulfill the following:

Carrier: Regarding the compliance status of the product referenced above with the resolution(s) identified below the following can be declared:

The grade polymer used in the formulation of the above product complies with relevant requirements of Mercosur/GMC/Resolution 03/92 and its amendments concerning "Guidelines for Food Packaging and Equipment in Contact with Food", as set forth in Annex I.

The monomer(s) and other authorized polymers and starting materials intentionally used in the polymer grade are listed in the Annex or are authorized in accordance with the requirements of Mercosur/GMC/Resolution No. 02/12 for plastic materials intended for the manufacture of food-contact packages and equipment. As such, the starting materials comply with Mercosur/GMC/Resolution 56/92.

This polymer is produced under conditions of good manufacturing practice and is of purity suitable for its intended use in food contact applications in accordance with the Mercosur regulatory citations identified. Mercosur/GMC/Resolution No. 19/21 has no impact to this compliance statement.

The additive(s) intentionally used in this polymer grade are listed in the Annex or are authorized in accordance with the requirements of Mercosur/GMC/Resolution No. 39/19 for plastic materials intended for the manufacture of food-contact packages and equipment:

Additive: n-Octadecyl 3,5-di-tert-butyl-4-hydroxy-hydrocinnamate CAS no.: 2082-79-3, Restriction: SML = 6 mg/kg food

Additive: Zinc Salt of Stearic Acid CAS no.: 57-11-4 Restriction: SML(T) = 5 mg/kg (expressed as Zinc)

The manufacturer of food-contact materials and articles - made from or containing this product grade - must ensure that the finished materials or articles meet the general regulatory requirements and that they do not bring about an unacceptable change in the composition of the foodstuffs or a deterioration in the organoleptic characteristics thereof and do not release constituents in foodstuffs in quantities that can endanger human health.

Additives: The additive used in the formulation of the above product is included in Table 1 of MERCOSUR/GMC/RES. Nº 39/19 (replacing MERCOSUR/GMC/RES. Nº 32/07) and any subsequent amendments, without restrictions.

Pigments: According to our supplier's information, the pigment present in the formulation of ROMBEST WHITE 161NG are listed in GMC Resolution Numbers 39/19GMC Resolution Numbers 39/19 (follow up of GMC 32/07), (REGLAMENTO TÉCNICO MERCOSUR SOBRE LISTA POSITIVA DE ADITIVOS PARA LA ELABORACIÓN DE MATERIALES PLÁSTICOS Y REVESTIMIENTOS POLIMÉRICOS DESTINADOS A ENTRAR EN CONTACTO CON ALIMENTOS (DEROGACIÓN DE LA RESOLUCIÓN GMC Nº 32/07)) the Resolution on the Positive List of Additives for Use in Plastic Food-Contact Materials and Polymeric Coatings for Food-Contact Materials.

It is responsibility of the manufacturer of the finished article and the filler to ensure that materials and articles, which in their finished state, are intended to be brought into contact with foodstuffs or are brought into contact with foodstuffs, must not transfer any components to the packed foodstuff in quantities that could endanger human health, or bring about an unacceptable change in the composition or deterioration in organoleptic properties.

6. CHINA FOOD CONTACT REGULATIONS

Carrier: Regarding the compliance status of the polymer used with the resolution(s) identified below the following can be declared:

With regard to the requirements set forth in the following National Standards that are applicable to the product referenced above:
1) <National Standard of the People's Republic of China GB4806.1-2016, National Food Safety Standard on General Safety Requirements of Food Contact Materials and Articles> (Issue Date: Oct. 19, 2016, Implementation Date: Oct. 19, 2017), and
2) <National Standard of the People's Republic of China GB4806.7-2023, National Food Safety Standard on Plastic Materials and Articles for Food Contact> (Issue Date: Sept. 6, 2023, Implementation Date: Sept. 6, 2024), and
3) <National Standard of the People's Republic of China GB9685-2016, National Food Safety Standard on Use of Additives in Food Contact Materials and Articles> (Issue Date: Oct. 19, 2016, Implementation Date: Oct. 19, 2017), and
4) <National Standard of the People's Republic of China GB31603-2015, National Food Safety Standard on General Hygienic Practice for Production of Food Contact Materials and Its Products> (Issue Date: Sep. 21, 2015, Implementation Date: Sep. 21, 2016).

we declare the above product complies with mentioned requirements, and the following information for reference by our downstream customers:

1. RESIN

The base resin(s) in the above polymer product is(are) listed in the <National Standard of the People's Republic of China GB4806.7-2023, National Food Safety Standard on Plastic Materials and Articles for Food Contact> and does not contain monomer(s) that is/are subject to a SML or QM restriction.

2 ADDITIVES

The additive(s) (as defined under Article 2.1 of GB9685-2016) that are present in the above product are authorized according to the <National Standard of the People's Republic of China GB9685-2016, National Food Safety Standard on Use of Additives in Food Contact Materials and Articles>, and are subject to the following restriction(s):

Additive: Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate; CAS no : 2082-79-3; SML/QM Restriction: SML = 6 mg/kg food.

Additive: Zinc Stearate; CAS no : 557-05-1; SML/QM Restriction: SML = 25.0 mg/kg food (Zinc).

Specific migration limit(s) (SML) of additive(s) listed in this statement were assessed and validated in accordance with <National Standard of the People's Republic of China GB31604.1-2023, National Food Safety Standard on Migration Test of Food Contact Materials and Articles> and <National Standard of the People's Republic of China GB5009.156-2016, National Food Safety Standard on Pre-treatment Methods for Migration Test of Food Contact Materials and Articles>, using a product sample that represents the above product of 1 mm thickness and found to be within the applicable SML as listed above in the following food simulants (at 60°C, 10 days): a. 4% acetic acid (Note: Zinc SML was assessed and validated with 4% acetic acid.) b. 95% ethanol

GENERAL NOTE:

It is the responsibility of the manufacturer of finished food contact materials and articles - made from or containing this product - to carry out appropriate overall migration limit (OML) and specific migration limit (SML) tests on the finished materials and articles to determine the regulatory suitability for contact with different food-types and various end-use conditions.

Additives: The additive used in the formulation of the above product has been listed on GB9685-2016, without restrictions.

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Pigments: With regard to the Chinese regulation “Hygienic standards for uses of additives in food containers and packaging material - GB9685-2016” and its current amendments, all ingredients from pigment are positively listed in the GB9685-2016 for use in applications with food contact according to the table below. Compliance with this standard depends on the end use or final product application.

7. UNITED STATES FOOD REGULATIONS INDIRECT FOOD ADDITIVE (FDA)

Carrier: Regarding the compliance status of the polymer used with the resolution(s) identified below the following can be declared:

This polymer complies with FDA regulation 21 CFR 177.1520 (Olefin polymers), paragraph (c)3.1a, and may be used as articles or components of articles intended for use in contact with all food types identified in Table 1 of 21 CFR 176.170(c), except for articles used for packing or holding food during cooking*.

* While FDA's Food Additive Regulations do not define which conditions of use in 21 CFR 176.170(c) correspond to the phrase "packing or holding food during cooking", FDA interprets the reference in 21 CFR 177.1520 to "packing or holding food during cooking" to correspond to Conditions of Use A and B. As such, this product may be used under Conditions of Use C through H as described in Table 2 of 21 CFR 176.170(c)."

This polymer is produced under conditions of good manufacturing practice as required by 21 C.F.R. § 174.5(a) and is of a purity suitable for its intended use in food contact applications in accordance with the regulatory citations identified above.

The manufacturer of an indirect food additive, food contact substance, or article containing this product has the responsibility to ensure compliance with all applicable FDA laws and regulations to ensure that any finished food contact article is of a purity suitable for its intended use.

Additives: The additive used in the formulation of the above product has been cleared by the FDA as substance used in polymers intended for food-contact materials and is listed in 21 CFR §178.2010, §178.3570.

Pigment: Titanium dioxide as a chemical species and main component of the grade use in production of this product is listed in 21 CFR 178.3297 for use as colorant for polymers. The organic surface modification is listed under FDA Threshold of regulation Exemption 2010-001, limited to max 0.7% and is present into the ROMBEST WHITE 161NG at a level of 0.14%. The level or organic surface modification is not reasonably expected to become components of the food, when the masterbatch is used in food

contact articles, no matter the let down ratio of ROMBEST WHITE 161NG, being fully complying with 21 CFR178.3297 in the material intended to come in contact with food.

8. NATIONAL CHEMICAL INVENTORY

With regard to the compliance status of the product referenced above with the regulation(s) identified below the following can be declared:
United States of America: All substance(s) in this product are listed on the Toxic Substances Control Act (TSCA) - Active Inventory or are exempt.

9. REGULATION (E.C) No. 1169/2011

Commission Regulation (EU) No 1169/2011 on the provision of food information to consumers, amending Regulations (EC) No 1924/2006 and (EC) No 1925/2006

We certify that during manufacturing of this product, we do not use or intentionally incorporate into this product any of the substances listed in this regulation.

Therefore, it is not reasonable to expect any of such substances to be present in this product.

Food allergens:

- peanuts, tree nuts (almonds, brazil nuts, chestnuts, filberts, hazelnuts, hickory nuts, macadamia nuts, pecans, pine nuts, pistachios, walnuts)
- milk and products thereof (including lactose)
- eggs
- soybeans
- shellfish
- crustaceans (shrimps, crabs, scallops, crayfishes, lobsters, oysters)
- molluscs (snails, squids, octopi, clams) and mollusc products
- sulphites
- food colourants
- celery and celery products
- wheat (gluten) and wheat products
- seeds (cotton, poppy, sesame, sunflower, mustard) and seed products
- aspartame
- monosodium glutamate (MSG)
- caffeine
- hydrogenated vegetable protein (HVP)
- grains (barley, oats, rye)

- lupine and lupine products

However, this product has not been tested for presence of above mentioned substances.

10. REGULATION (EC) No 1895/2005

Commission Regulation (EC) No 1895/2005 (of 18 November 2005) on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food

- 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether, referred to as'BADGE' [CAS No 001675-54-3]
- bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers, referred to as 'BFDGE' [CAS No 039817-09-9]
- other novolac glycidyl ethers, referred to as 'NOGE'

are not used in manufacturing of this product, therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for presence of these chemical substances.

11. REGULATION (EC) No 2019/1021

Regulation (EC) No 2019/1021 (of 20 June 2019) on persistent organic pollutants and its amendments: Regulation (EU) No 2015/2030 (of 13 November) and Regulation (EU) No 2016/460 (of 30 March 2016)
We declare that during manufacturing of this product we do not intentionally incorporate into this product any of the chemicals restricted by ANNEX I – IV. of this regulation. According to this fact it is not reasonable to expect any of such substances to be present in this product.

12. DIRECTIVE (EU) No 2015/863 (RoHS)

This product is in compliance with the relevant heavy metals, flame retardants and phthalates requirements of the following regulation:

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE), RoHs II ‑ amended by Directive (EU) 2017/2102 and

including amendment of Annex II for restricted substances up to Commission delegated Directive (EU) 2015/863 and amendments of Annex III and IV for exemptions up to Directive (EU) 2019/1846.

The concentrations of the following:

- heavy metals (lead, cadmium, mercury & hexavalent chromium)

- flame retardants [polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs)]

- phthalates [Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP)

in this product do not exceed 0.1% by weight; and 0.01% by weight for cadmium.

Traces levels of these substances may be present resulting from the specific characteristics of the raw materials and/or of the manufacturing process.

However, analysis has not been conducted to confirm the absence of the above mentioned substances and traces of ubiquitously occurring impurities cannot be excluded.

13. DIRECTIVE 94/62/EC

European Parliament and Council Directive 94/62/EC (of 20 December 1994) on packaging and packaging waste as amended up to Commission Directive 2018/852.

Based on the available documentation from raw materials suppliers and test results, ROMBEST WHITE 161NG complies with the Directive 94/62/EC and it's following amendments concerning the defined limits of heavy metals. This product meets requirements of less than 100 ppm for total incidental cadmium, lead, mercury, hexavalent chromium (Cr VI). In addition, this product has the potential to be recycled according to these requirements.

Trace levels of these substances may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

14. REGULATION (E.C) No. 1907/2006

According to our supplier's information, ROMBEST WHITE 161NG does not contain any of the substances listed on the last updated ECHA candidate list (1907/2006,

Annex XIV, edition **released on 25-th of June 2025**) of SVHC in a concentration above 0.1% w/w.

15. REGULATION (EC) No 1223/2009

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products, applies to cosmetics products and their ingredients as defined by Article 1 of this regulation.
The product ROMBEST WHITE 161NG is not intended to be used as ingredient of cosmetics or as cosmetic product.

16. BSE/TSE

This product does not contain specified risk materials as defined by Regulation (EC) 999/2001/EC. The raw materials used in the manufacturing of this product are not from animal origin.

17. PFAS, PFOS&PFOA

Per- and polyfluoroalkyl substances (PFAS), Perfluorooctane sulfonate (PFOS) & Perfluorooctanoic acid (PFOA) are not intentionally used in this product. Although this product is not routinely tested for their presence, based on product composition knowledge these substances are not expected to be present. However, the fact that these substances are not intentionally used in the product does not exclude that trace levels of these substances may be present because of the specific characteristics of the raw materials and/or of the manufacturing process.

18. CALIFORNIA PROPOSITION 65

The product ROMBEST® WHITE 161NG to which this declaration relates, is made out of raw materials, which according to our suppliers contains substance listed in California Proposition 65, latest update 2025.01.03

- Titanium Dioxide (airborne, unbound particles of respirable size) - September 2, 2011.

However, Titanium dioxide is bound into the plastic pellets and not airborne, unbound particles of respirable size.

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19. EU DEFORESTATION REGULATION

Products that qualify as relevant product under the Regulation (EU) 2023/1115 of 31 May 2023 on deforestation-free products ("Regulation") contain, have been fed with or have been made using any of the relevant commodities defined in Art 2 of the Regulation namely cattle, cocoa, coffee, oil palm, rubber, soya and wood, and are listed in Annex I of the Regulation. Based on our understanding of the Regulation, this product does not qualify as a relevant product as listed in Annex I of the Regulation.

20. OTHER CHEMICALS

In the manufacturing of this product the following substances or class of substances are not intentionally used:

Substances	**Regulatory reference**
Bisphenols, including Bisphenol A, B, S	SVHC list, 12.01.2017,08.07.2021,17.01.2023
Melamine	SVHC list, 17.01.2023
Tris(nonylphenol)phosphate (TNPP)	SVHC list, 16.07.2019
Dioxin	Regulation (EU) 2019/1021
Biocides	Regulation (EU) No 528/2012, National Register of Biocidal Products
4MBP, 4-[4-(4-hydroxyphenyl)-4-methylpent-1-en-2-yl]phenol(CAS Number:13464-24-9)	
α-Pinene (CAS Number: 80-56-8)	
Benzophenone	
Chlorobenzene (CAS Number: 108-90-7)	
Chlorofluorocarbons (CFCs)	
Conflict minerals	
Dichlorobenzene (including 1,2- 1,3-1,4-Dichlorobenzene)	
Dichloromethane (CH2Cl2)	
Fluorine or fluoride	
Genetically Modified Organism	
Halogen substances	
ITX, isopropylthioxanthone (CAS Number: 83846-86-0)	
Mineral Oils (MOSH, MOAH)	
Nanomaterials	
Naphthol	
Natural rubber(latex)	

Naphthalene (CAS Number:91-20-3)	Annex XVII of REACH
Nitrosamines	
NPE-Nonylphenol Ethoxylates (CAS Number: 9016-45-9)	SVHC list, 20.06.2013
Nonylphenol (CAS Number: 25154-52-3)	SVHC list, 19.12.2012
Phthalates (DEHP, DBP, BBP, DIBP, DIDP, DINP, DNOP)	Reg. (EC) No1907/2006, Annex XVII; Directive 2011/65/EU Restiction of Hazardous Substances, RoHS; Directive 2015/863/EU
Polystyrene (CAS Number: 9003-53-6)	
PVC/PVDC	
Silicones	
Sodium chloride (CAS Number: 7647-14-5)	
Sulphur (CAS Number: 7704-34-9	
Trimethylsilanol (CAS Number: 1066-40-6)	
Toluene (CAS Number: 108-88-3)	Annex XVII of REACH

Date: 08/10/2025

Constantin OPREA
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The above information is based on our knowledge and experience and is given in good faith to be used as recommendations for trials only. As the exact conditions of processing and usage of the finished products are beyond our control, this information is provided without any engagement or warranty from our side. Buyer should verify the suitability of the product and determine the appropriate rate under the actual conditions of applications.

DECLARATION OF CONFORMITY

26.06.2026

We, S.C. ROMCOLOR 2000 S.A., located in 1-st Salcamului St, Copaceni, Ilfov, Romania, declare under our sole responsibility that the product

ROMBEST®WHITE 161NG

to which this declaration relates, is made out of raw materials, which according to our suppliers, are in conformity with the requirements of:

- Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food, article 3 and 17.
- Regulation (EU) No 2025/40 on packaging and packaging waste,
  -article 5 point 4, the sum of the concentrations of lead, cadmium, mercury and hexavalent chromium resulting from substances present in packaging or packaging components does not exceed 100 mg/kg.
  -article 5 point 5, No fluorinated organic substances—such as PFAS (e.g., PFOS, PFOA, PFHxA, fluoropolymers, perfluoropolyether)—have been added to this product.
- Regulation (EU) No 10/2011 as amended up to Regulation (EU) No 2026/245 relating to plastic materials and articles intended to come into contact with food, with the following restrictions for the ingredients listed under reference number:
  Annex I
  →68320, Octadecyl 3-(3,5-di-tert-butyl-4 hydroxyphenyl)propionate), with a SML of 6 mg/kg of food – Lipophilic substances
  →Salt of 89040(Zinc Stearate), with a SML of 5 mg/kg of food – Expressed as Zinc
  →13380/25600/94960 (1,1,1-trimethylolpropane), with a SML of 6 mg/kg of food
  Annex II

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Member of
Plastika Kritis

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→aluminium, restriction on aluminium: SML= 1mg/kg

In accordance with Art. 3a regarding the high degree of purity, all constituents of the product correspond to their identity fulfilling one of the conditions (i), (ii), (iii) or (iv).

It is the responsibility of the manufacturer of the final food contact article to determine compliance with any of the listed SML restrictions.

We confirm that:

- Substances unlisted into Union List have not been intentionally added into the recipe,
- Dual use additives (additives which are also authorized as food additives by Regulation (EC) 1130/2011, in the sense of Article 11 of Regulation (EU) No 10/2011) have not been included into raw recipe.

All above mentioned data were given with good faith and represent the current knowledge at the time issuance of this declaration in accordance with the standards and regulations mentioned above. The presented data do not imply any guarantee of certain properties or warranty for completeness or accuracy and suitability of the products for a specific purpose. Processors are not relieved from carrying out their own investigations and tests.

Quality and R&D Manager,
Constantin Oprea

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DECLARATION DATA SHEET

Polyethylene TIPELIN 6300B

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

GENERAL PROPERTIES

Characteristics: High density bimodal polyethylene copolymer granulate intended for blow moulding application
Used monomer: ethylene (CAS No.: 74-85-1)
Used comonomer: 1-Butene (CAS No.: 106-98-9)
Applied catalyst system: non-phthalate Ziegler-Natta
License: Mitsui
Manufacturer: MOL Petrochemicals Co. Ltd./ TISZAÚJVÁROS

FOOD CONTACT APPLICATION

EUROPEAN UNION FOOD CONTACT STATUS

This product complies with the relevant requirements of:

Commission Regulation (EC) No 1935/2004

The organoleptic characteristics of food contact materials are influenced by converting conditions, time and temperature of storage and type of food, therefore compliance with article 3 §1,c must be verified and tested by the producer of the final packaging material.

Commission Regulation (EC) No 2023/2006 (of 22 December 2006) on good manufacturing practice for materials and articles intended to come into contact with food as amended, applicable to intermediate materials (e.g. plastic granules, plastic flakes). We declare that production of this product runs under established, implemented and observed effective and documented quality assurance system certified by ISO 9001, ISO 14001 and OHSAS 18001 so that, under normal or foreseeable conditions of use, its constituents cannot transfer to food in quantities which could endanger human health or bring about an unacceptable change in the composition of the food or bring about deterioration in the organoleptic properties. We fulfil the general rules on GMP as laid down in the above-mentioned commission regulation (EC) No. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food. Moreover, we declare that our production process is in harmony with requirements of Directive 1999/92/EC (of 16 December 1999) on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmosphere.

Commission Regulation (EU) No 10/2011 (of 14 January 2011) on plastic materials and articles intended to come into contact with food, as last amended and consolidated on 16 March 2025. This consolidated version includes, among other regulations, the following: Commision Regulation (EU) 2020/1245 of 2 September 2020 and Commission Regulation (EU) 2025/351 of 21 February 2025.

The monomers and additives used in our production are listed in the Union List of Authorized substances in ANNEX I and ANNEX II of Regulation (EU) No 10/2011 and based on this we comply with the requirements of this regulation.

Based on migration experiments with test samples made of this polymer and carried out in the presence of the standard food simulants A (10% ethanol), B (4% acetic acid) and D2 (olive oil) at 40°C during 10 days, it is our experience that under these conditions overall migration limits are not exceed 10 mg/dm2. Furthermore we declare that this product does not release substances in detectable quantity listed in 10/2011/EC ANNEX II. Results from the tested OM2 condition represents Intended food contact conditions for any long term storage at room temperature or below, including heating up to 70 °C for up to 2 hours, or heating up to 100 °C for up to 15 minutes.

We draw your attention to the fact that the EU-Directive 10/2011/EC, which applies to all EU-Member States, includes a limit of 10 mg/dm^2 on the overall migration (OML) from finished food contact material or article. In accordance with EU-Directive 10/2011/EC the OML and specific migration limits (SMLs, if applicable) should be measured on finished articles placed into contact with the foodstuff or appropriate food simulants for a period and at the temperature which are chosen by reference to the contact conditions in actual use according to the rules laid down in EU-Directives 97/48/EC (amending 82/711/EEC) and 85/572/EEC.

However, the measurement of Non-Intentionally Added Substances (NIAS) is currently ongoing. There is a transitional period until 16 September 2026, NIAS test results for Polyethylene TIPELIN 6300B will be available from April 2026 at the earliest. After that, we will be able to provide more accurate information regarding the requirement of high degree of purity.

Specific Migration Limit (SML) requirements according to Commission Regulation (EU) No 10/2011

This product does not contain monomers, additives or components which have SMLs or QMAs as specified by Regulation 10/2011/EC, ANNEX I. Based on migration experiments with test samples made of this polymer we confirm that specific migration limits of Metals and PAA in simulant A (4% acetic acid), at 60°C/10 days meet requirements given by COMMISSION REGULATION (EU) No 10/2011 of 14 January 2011 ANNEX II.

Dual Use Additives

The information provided concerning additives which are also food additives and flavoring is based on our current knowledge. Ca-stearate (CAS No.:1592-23-0, Ref. No.: 89040 Ca-salts) as E 470a used max. 800 ppm.

Please note it is responsibility of both, the manufacturers of finishing contact articles as well as the industrial food packers, to make sure that these articles in their actual use are in compliance with the imposed overall migration requirements.

DECLARATION DATA SHEET

Polyethylene TIPELIN 6300B

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+
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Commission Regulation (EU) No 1169/2011 of the European Parliament and of the Council (25 October 2011) on the provision of food information to consumers, amending Regulations (EC) No 1924/2006 and (EC) No 1925/2006 of the European Parliament and of the Council

We declare that during manufacturing of this product, we do not use or intentionally incorporate into this product any of the substances listed in this regulation. Therefore, it is not reasonable to expect any of such substances to be present in this product.

Food allergens:

- peanuts, tree nuts (almonds, brazil nuts, chestnuts, filberts, hazelnuts, hickory nuts, macadamia nuts, pecans, pine nuts, pistachios, walnuts)
- milk and products thereof (including lactose)
- eggs
- soybeans
- shellfish
- crustaceans (shrimps, crabs, scallops, crayfishes, lobsters, oysters)
- molluscs (snails, squids, octopi, clams) and mollusc products
- sulphites
- food colourants
- celery and celery products
- wheat (gluten) and wheat products
- seeds (cotton, poppy, sesame, sunflower, mustard) and seed products
- aspartame
- monosodium glutamate (MSG)
- caffeine
- hydrogenated vegetable protein (HVP)
- grains (barley, oats, rye)
- lupine and lupine products

However, this product has not been tested for presence of above mentioned substances.

REGULATION (EU) No 1169/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 25 October 2011 on the provision of food information to consumers, amending Regulations (EC) No 1924/2006 and (EC) No 1925/2006 of the European Parliament and of the Council, and repealing Commission Directive 87/250/EEC, Council Directive 90/496/EEC, Commission Directive 1999/10/EC, Directive 2000/13/EC of the European Parliament and of the Council, Commission Directives 2002/67/EC and 2008/5/EC and Commission Regulation (EC) No 608/2004

We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product, any of the substances which are listed in ANNEX II of this directive. Therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Commission Regulation (EC) No 1895/2005 (of 18 November 2005) on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food

- 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether, referred to as 'BADGE'
[CAS No 001675-54-3]
- bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers, referred to as 'BFDGE'
[CAS No 039817-09-9]
- other novolac glycidyl ethers, referred to as 'NOGE'

are not used in manufacturing of this product, therefore it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for presence of these chemical substances.

MOH, MOSH, MOAH, POH, POSH, POAH, POMH statement according to Commission Recommendation (EU) No 2017/84 (of 16 January 2017) on the monitoring of mineral oil hydrocarbons in food and in materials and articles intended to come into contact with food

Mineral oil hydrocarbons (MOH), Mineral oil saturated hydrocarbons (MOSH), mineral oil aromatic hydrocarbons (MOAH), polyolefin oligomeric saturated hydrocarbons (POSH) and polyolefin oligomeric aromatic hydrocarbons (POAH) are not used as direct additives. Polyolefin oligomeric hydrocarbons (POH) are present in polymer and represent the low molecular weight fraction.

However, we use white oil and vaselin as processing aids. This product has not been tested for these chemical substances.

Substances of animal origin

We declare, that during manufacturing of this product we use animal origin substances.

Tallow and its derivates (BSE/TSE)

The concerns relative to BSE/TSE in the context of plastic materials used in contact with food are linked to the use of additives of animal origin: tallow derivatives. Above mentioned polymer is not TSE/BSE dangerous product.

GMO (GENETICALLY MODIFIED SUBSTANCES)

We declare that during manufacturing of this product we do not intentionally add genetically modified substances.

Kosher and Halal certification

This product is not Kosher and Halal certified.

BfR (Bundesinstitut für Risikobewertung) III. Polyethylene

This product meets requirements given by BfR (Bundesinstitut fur Risikobewertung), III. Polyethylene Recommendation for the materials intended to come into contact with food.

Swiss Ordinance

We confirm that the above mentioned product complies with Swiss ordinance 817.023.21. During production of above mentioned product we do not use any SML specified monomer or other starting substances, do not use any SML specified catalyst and and do not use any SML specified additives according to Swiss ordinance 817.023.21. (last amendment on 1 February 2024).
Considering the above matter-of-fact it is not reasonable to expect any of such substances to be present in above mentioned product.
However this product has not been tested specifically to comply with Swiss guideline 817.023.21.

US FOOD AND DRUG ADMINISTRATION (FDA)

The base resin corresponds requirements given by FDA Title 21 CFR (Code of Federal Regulations) § 177.1520 Indirect food additives: Polymers: Olefin polymers (a)(3)(i)(c1):
2.1. Polyethylene for use in articles that contact food except for articles used for packing or holding food during cooking and
2.2. Polyethylene for use in articles used for packing or holding food during cooking.

FOOD CONTACT CHINA

We declare that the above mentioned product, based on its recipe is compliant with the requirements for Chinese food contact standard:

- GB 4806.1-2016: General Safety Requirements on Food Contact Materials and Articles
- GB4806.7-2023 Plastic Materials and Articles in Contact with Food
- GB 9685-2016: Standard for the Use of Additives in Food Contact Materials and Articles

Additives used in production of this grade are listed in Appendix A (Allowable Additives with Their Using Requirements) with no specific migration limits. We do not use any additives listed in Appendix B (Total Specific Migration Limit). We do not use any additives with metallic elements with special migration limits in Appendix C (Special Limitation of Metallic Elements).

FOOD CONTACT JAPAN

We declare that under the Positive List System for Food Utensils, Containers and Packaging of the Food Sanitation Law of Japan from 06 March 2023:

- Used polymer matrix is listed in Table 1 (list of polymers) and can be used in all food contact applications.
- Intentionally added polymer additives are listed in Table 2 (list of additives) and are present in the final product in concentrations not exceeding the specified limits.

MERCOSUR REGULATION

As the producer of this grade we confirm that this product is in compliance with the following Mercosur standards:

MERCOSUR/GMC/RES. No. 02/12 MERCOSUR TECHNICAL REGULATION ON POSITIVE LIST OF MONOMERS, OTHER STARTING SUBSTANCES AND POLYMERS AUTHORIZED FOR THE MANUFACTURE OF FOOD-CONTACT PLASTIC PACKAGING AND EQUIPMENT
During the production of above mentioned grade we do not use any SML specified monomer or other starting substances.

MERCOSUR/GMC/RES. N° 39/19 MERCOSUR TECHNICAL REGULATION ON THE POSITIVE LIST OF ADDITIVES FOR THE PREPARATION OF PLASTIC MATERIALS AND POLYMERIC COATINGS THAT COME INTO CONTACT WITH FOOD (REPEAL OF GMC RESOLUTION No. 32/07)
During production of above mentioned product we do not use any SML specified catalyst and and do not use any SML specified additives according to MERCOSUR/GMC/RES. N° 39/19.

However, this product has not been tested according to these standards.

Brazilian Mercosur

We confirm that this product is in compliance with the Brazilian standards:

- Resolution No. 56 of 19 May 2023, provides on the positive list of monomers, other initiators and polymers authorised for the preparation of plastic packaging and equipment in contact with food
- Resolution - RDC No. 17 of 4 December 2019 provides on technical regulation on positive list of additives for plastic materials for the development of packaging and equipment in contact with foods

However, this product has not been tested according to these standards.

ADDITIONAL COMPLIANCE

U.S. Environmental Protection Agency’s Toxic Substances Control Act (TSCA) Inventory

We confirm that the main components of the above mentioned product are listed on U.S. Environmental Protection Agency’s Toxic Substances Control Act (TSCA) Inventory.

WEEE

We declare that this product is not classified as electric and electronic equipment (EEE) by DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE). However, the substances, mixtures and components specified for

selective treatment in ANNEX VII of this regulation are not intentionally added into this product or are not a part of this product.

Regulation (EC) No 1272/2008 (of 16 December 2008) on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006
CLP – Classification, Labelling and Packaging regulation

This product is not classified as dangerous substance according to the Directive 67/548/EEC and 1999/45/EC, Legal Act of National Council of HU No. 2000/XXV. Law, Publication date: 26/04/2000, Reference: (MNE(2003)54491) During production of this product we do not intentionally use any carcinogenic, mutagenic or toxic and reprotoxic substances (CMR substances) in accordance with EC 1272/2008.

Note(1): 78/631/EEC; 88/379/EEC; 89/178/EEC; 90/492/EEC; 93/18/EEC; 96/65/EC has been repealed by Directive 1999/45/EC acc.to ANNEX VIII.
Note(2): 67/548/EEC and 1999/45/EC will be repealed by Directive 1272/2008/EC (16 Dec 2008) with effect from 1 June 2015.

European Parliament and Council Directive 94/62/EC (of 20 December 1994) on packaging and packaging waste and its amendments 2005/20/EC and 2013/2/EU

Based on the available documentation from raw materials suppliers and test results, this grade complies with the Directive 94/62/EC and it's following amendments concerning the defined limits of heavy metals. This product meets requirements of less than 100 ppm for total incidental cadmium, lead, mercury, hexavalent chromium (CrVI). In addition, this product has the potential to be recycled according to these requirements.

Declaration of Code of Federal Regulations title 16 chapter II. Consumer product safety commission part 1500 (Hazardous substances and Articles)

This product is not classified as hazardous substance (see § 1500.3 Definitions). Waste of this product is not hazardous and can be re-processed by recycling and reused as raw material.

Directive 76/768/EEC of 27 July 1976 on the approximation of laws of the Member States relating to cosmetic products

We certify that during manufacturing of this product we do not use or intentionally incorporate into this product any of chemicals listed in ANNEX II and ANNEX III part 1 of this Directive. Therefore, it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for presence of these chemical substances.

Regulation (EC) No 1223/2009 of the European parliament and of the council of 30 November 2009 on cosmetic products

We confirm that this polymer meets requirements of Regulation No 1223/2009/EC.
However, this product has not been tested according to requirements of Regulation (EC) 1223/2009.

Regulation (EU) 2024/590 of the European parliament and of the council of 7 February 2024 on substances that deplete the ozone layer and repealing Regulation (EC) No 1005/2009 (Ozone Depleting Substances such as CFC's, HCFC's, Halons, CCl4, Trichloroethane, HBFC's)

We declare, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as restricted by this regulation. According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Regulation (EC) No 2019/1021 (of 20 June 2019) on persistent organic pollutants, as last amended and consolidated on 3 December 2025

We declare that during manufacturing of this product we do not intentionally incorporate into this product any of the chemicals restricted by ANNEX I – IV. of this regulation (see table below). According to this fact it is not reasonable to expect any of such substances to be present in this product.

Substance	CAS No
2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol	25973-55-1
Aldrin	309-00-2
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8 and others
Chlordane	57-74-9
Chlordecone	143-50-0
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane)	50-29-3
Decabromodiphenyl ether (c-decaBDE)	1163-19-5
Dechlorane Plus (includes its syn-isomer and anti-isomer)	13560-89-9 135821-03-3 135821-74-8
Dicofol	115-32-2
Dieldrin	60-57-1
Endosulfan	959-98-8 115-29-7 33213-65-9
Endrin	72-20-8
Heptabromodiphenyl ether	68928-80-3 and others
Heptachlor	76-44-8
Hexabromobiphenyl	36355-01-8
Hexabromocyclododecane and its diastereoisomers (alpha-hexabromocyclododecane, beta-hexabromocyclododecane, gamma-hexabromocyclododecane)	25637-99-4 3194-55-6 134237-50-6

	134237-51-7 134237-52-8
Hexabromodiphenyl ether	36483-60-0 and others
Hexachlorobenzene (HCB)	118-74-1
Hexachlorobutadiene (HCBD)	87-68-3
Hexachlorocyclohexanes, including lindane	58-89-9 319-84-6 319-85-7 608-73-1
Methoxychlor	72-43-5 30667-99-3 76733-77-2 255065-25-9 255065-26-0 59424-81-6 1348358-72-4 and others
Mirex	2385-85-5
Pentabromodiphenyl ether	32534-81-9 and others
Pentachlorobenzene (PeCB)	608-93-5
Pentachlorophenol and its salts and esters	87-86-5 and others
Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related compounds	355-46-4 and others
Perfluorooctane sulfonic acid and its derivatives (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOS-F) and others	1763-23-1 2795-39-3 29457-72-5 29081-56-9 70225-14-8 56773-42-3 251099-16-8 4151-50-2 31506-32-8 1691-99-2 24448-09-7 307-35-7 and others
Perfluorooctanoic acid (PFOA), its salts and PFOA related compounds	335-67-1 and others
Polychlorinated Biphenyls (PCB)	1336-36-3 and others
Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF) and dioxin-like polychlorinated biphenyls (dl-PCBs)	-
Polychlorinated naphthalenes	70776-03-3 and others
Polycyclic aromatic hydrocarbons (PAHs)	
Tetrabromodiphenyl ether	40088-47-9 and others
Toxaphene	8001-35-2

However, this product has not been tested for presence of above mentioned substances.

Directive (EU) 2019/904 of the European Parliament and of the Council (of 5 June 2019) on the reduction of the impact of certain plastic products on the environment

We declare that this product complies with the requirements of Directive (EU) 2019/904 of the European Parliament and of the Council (of 5 June 2019) on the reduction of the impact of certain plastic products on the environment.

We confirm that during the manufacturing, we do not intentionally use that include additives which, through accelerate the oxidation, lead to the fragmentation of the plastic material into micro-fragments or to chemical decomposition according to the requirements DIRECTIVE (EU) 2019/904.

However, this product has not been tested according to this directive.

Directive No 2011/65/EC (of 8 June 2011) on the restriction of the use of certain hazardous substances in electrical and electronic equipment, as last amended and consolidated on 1 January 2025.

RoHS regulation refers to electrical and electronic equipment and not specifically to plastic raw material. Based on the available documentation from raw materials suppliers this product complies with the Directives concerning the limits of heavy metals and substances mentioned in table below. Heavy metals and chemical substances restricted by these directives are not incorporated into this polymer intentionally during the production. However, this product has not been tested according to specific requirements of Directive No 2011/65/EC.

Note: 2002/95/EC has been repealed by Directive 2011/65/EC (8 June 2011) with effect from 3 January 2013.

Substance/Element	Limit [%]	CAS No
Lead (Pb)	0,1	7439-92-1
Cadmium (Cd)	0,01	7440-43-9
Hexavalent chromium (Cr^{VI})	0,1	18540-29-9
Mercury (Hg)	0,1	7439-97-6
Polybrominated biphenyls (PBB)	0,1	-
Polybrominated diphenyl ethers (PBDE)	0,1	-
Bis(2-ethylhexyl) phthalate (DEHP)	0,1	117-81-7
Butyl benzyl phthalate (BBP)	0,1	85-68-7
Dibutyl phthalate (DBP)	0,1	84-74-2
Diisobutyl phthalate (DIBP)	0,1	84-69-5

Directive No 2000/53/EC (of 18 September 2000) on End-of-Life Vehicles (ELV)

Heavy metals like cadmium, lead, mercury, hexavalent chromium (CrVI) and their compounds restricted by this regulation are not incorporated into this polymer intentionally during production. However, this product has not been tested according to specific requirements of Directive No 2000/53/EC.

GADSL (Global Automotive Declarable Substance List)

Hereby, following substances are listed below which are indicated in Global Automotive Declarable Substance List (Revision date 01.02.2025) and they are present in this polymer product:
there are not GADSL substances in the formulation of this product.

Note: In Aug 2005, VDA list of VDA 232-101 regulation (VDA = Verband der Automobilindustrie) has been replaced by the GADSL.

Directive No 2009/48/EC (of 18 June 2009) on the safety of toys and CEN standards EN 71-3 and EN 71-9

CEN Standard EN 71-3 and EN 71-9 refer to safety of toys and not specifically to plastic raw material.
We confirm that we do not intentionally add substances listed in EN 71-9, Tables 2 A-I. According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for presence of these chemicals.

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as restricted by 2009/48/EC ANNEX II. Part III. Chemical properties Tables 11 and 13. According to this fact it is not reasonable to expect any of such substances to be present in this product.

This product was tested according to EN 71-3 and meets the requirements of migration limits of certain elements which shall not be exceeded in scraped-off toy material defined by Annex II, III. Chemical properties, point 13. of Directive 2009/48/EC of 18th June 2009 on the safety of toys.

BIFMA (Business and Institutional Furniture Manufacturers Association) declaration

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as listed by BIFMA e3-2008 Furniture Sustainability Standard ANNEX B (Chemicals of concern list). According to this fact it is not reasonable to expect any of such substances to be present in this product. However, this product has not been tested for these chemical substances.

Nanomaterials and Nanotechnology

We certify that during manufacturing of this product, we do not use nanotechnology or any nanomaterials defined in Commission Recommendation 2011/696/EU (of 18 October 2011) on the definition of nanomaterial.

Nanomaterials defined as natural, incidental or manufactured materials containing particles in an unbound state or as an aggregate or as an agglomerate and where for 50% or more of the particles in the number of size distribution, one or more external dimensions is in the size range (1-100) nm are not used in the production or the formulation of this grade. However, this product has not been tested for presence of these chemical substances.

CEN standard EN 13432

This product is not suitable for composting.

Conflict minerals

Conflict minerals which contain columbite-tantalite (coltan), cassiterite, gold, wolframite and their derivative metals like sources of tin, tungsten and tantalum mined from the Democratic Republic of Congo (DRC) or its adjoining countries (DRC Countries: Angola, Burundi, Central African Republic, the Republic of Congo, Rwanda, South Sudan, Tanzania, Uganda, Zambia) are not used in polymerization process during the production of this product.

Regulation (EU) 2017/821 of the European Parliament and of the Council of 17 May 2017 laying down supply chain due diligence obligations for Union importers of tin, tantalum and tungsten, their ores, and gold originating from conflict-affected and high-risk areas.

We confirm the compliance with the Conflict Minerals Regulation (EU) 2017/821 concern to the EU-based importers of tin, tantalum, tungsten and gold (also referred to as “3TG”) and commit ourselves to also demand compliance from our suppliers. We confirm that we are not subject to the provisions of the Conflict Mineral Regulation, as we do not import any of the concerned minerals from conflict and high-risk areas into the European Union as a Union importer.

Regulation (EU) 2024/573 of the European Parliament and of the Council of 7 February 2024 on fluorinated greenhouse gases

We declare that during the manufacturing of this product, we do not use or intentionally incorporate greenhouse gases. Therefore, it is not reasonable to expect any such substances to be present in this product. However, this product has not been specifically tested for the presence of these chemical substances.

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DECLARATION OF OTHER CHEMICAL ELEMENTS

As a producer of this product, we confirm that during production of this product we do not use below mentioned elements, and their derivatives therefore are not expected to be present in this product. However, this product has not been tested for the presence of these elements.

- Antimony (Sb)
- Arsenic (As)
- Conflict minerals: Gold (Au), Tantalum (Ta), Tin (Sn), Tungsten (W)
- Halogens (fluor, brom, iod)
- Phosphorous (yellow and red)
- Rare Earth Elements
- Selenium (Se)
- Sulphur (S)
- Uranium (U)

We have to call your attention that this product may contain chlorine compounds in negligible quantities (<100ppM).

DECLARATION OF OTHER SUBSTANCES

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product any of the chemicals which are listed below and therefore they are not expected to be present in this product. However, this product has not been tested for these chemical substances.

- Acetyl Acetone (ACAC) [CAS No. 123-54-6]
- 7-acetyl-6-ethyl-1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalene [CAS No. 88-29-9]
- Acenaphtylene [CAS No. 208-96-9]
- Acetaldehyde [CAS No. 75-07-0]
- Acenaphthene [CAS No. 83-32-9]
- Acetyl tributyl citrate [CAS No. 77-90-7]
- 4-Aminobiphenyl [CAS No. 92-67-1] and its salts
- Acrolein (2-propenal) [CAS No. 107-02-8]
- Anthracen [CAS No. 120-12-7]
- Antrachinon [CAS No. 84-65-1]
- Acrylamide [CAS No. 79-06-1]
- Adipates
- Alcohols
- Alcoholic derivatives
- Aliphatic Sulphonate Compounds
- Aromatic Amines (restricted by Directive 2002/61/EC)
- Amonium Nitrate [CAS No. 6484-52-2]
- Asbestos [Chryolite CAS No. 12001-29-5], Amosite [CAS No. 12172-73-5], Anthophyllite [CAS No. 77536-67-5], Actinolite [CAS No. 77536-66-4], Tremolite [CAS No. 77536-68-6]
- Acrylonitrile [CAS No. 107-13-1]

- Alkylphenols
- Alkyl phenol Ethoxylates (APE)
- Alkyphenolphosphates
- Anthracene [CAS No. 120-12-7]
- Anthraquinone [CAS No. 84-65-1]
- Artificial musks
- Azocolourants (restricted by Directive 2002/61/EC), azodyes
- Azodicarbonamide [CAS No. 123 -77-3]
- Barium derivatives
- Benzalkonium chloride (BAC)
- Benzene [CAS No. 71-43-2]
- Benzidine [CAS No. 92-87-15] and its salts
- Benzoic Acid [CAS No. 65-85-0]
- Benzo[a]pyren (BaP) [CAS No. 50-32-8]
- Benzo[a]anthracene [CAS No. 56-55-3]
- Benzo[b]fluoranthene [CAS No. 205-99-2]
- Benzo[k]fluoranthene [CAS No. 207-08-9]
- Benzo[j]fluoranthene [CAS No. 205-82-3]
- Benzo[g,h,i]perylene [CAS No. 191-24-2]
- Benzo[e]pyrene [CAS No. 192-97-2]
- Benzotriazole [CAS No. 95-14-7]
- Benzisothiazolinone [CAS No. 2634-33-5]
- Benzophenone [CAS No. 119-61-9]
- Benzylbenzoate [CAS No. 120-51-4]
- 2-(2H-benzotriazol-2-yl)-4,6-di-tert-butylphenol [CAS No. 3846-71-7]
- Beryllium compounds (including: beryllium-oxide) and beryllium alloy
- Biocides
- Bisphenol A (BPA) [CAS No. 80-05-7], Bisphenol AF (BPAF) [CAS No. 1478-61-1], Bisphenol B (BPB) [CAS No. 77-40-7], Bisphenol E (BPE) [CAS No. 2081-08-5], Bisphenol F (BPF) [CAS No. 620-92-8] and Bisphenol S (BPS) [CAS No. 80-09-01]
- Bisphenol A diglycidyl ether (BADGE) [CAS No. 1675-54-3]
- Bisphenol F diglycidyl ether (BFDGE) [CAS No. 2095-03-6]
- 4,4'-Bis(diethylamino)benzophenone- DEAB [CAS No. 90-93-7]
- Bis(chloromethyl)ether (BCME) [CAS No. 542-88-1]
- Bis(2-butoxyethyl) adipate [CAS No. 141-18-4]
- Bis(2-ethylhexyl) Fumarate [CAS No. 141-02-6]
- Bismuth [CAS No. 7440-69-9]
- Blue colorants
- Bromine and its derivatives
- Butyl acrylate [CAS No. 141-32-2]
- BNST (Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene) [CAS No. 68921-45-9]
- Boric acid [CAS No. 10043-35-3]; borates and perborates

- Boron and its derivates
- Butylated Hydroxytoluene (BHT) [CAS No. 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No. 25013-16-5 and CAS No. 121-00-6]
- C10 - C13 aromatics
- C9 aromatics
- Camphor benzalkonium methosulfate [CAS No. 52793-97-2]
- Catenex PH 941
- Cellulose [CAS No. 9004-34-6]
- Cellulose Acetate [CAS No. 9004-35-7]
- Cetylstearylalcohol [CAS No. 67762-27-0]
- Chlorinated alkyl benzenes (CABs)
- Chlorinated paraffins, short chain chlorinated paraffins (SCCPs)
- Chlorine and its derivatives
- Chlorofluorocarbon (CFC)
- Chlorpyrifos (CAS No.: 2921-88-2)
- Cholecalciferol [CAS No. 67-97-0]
- Chrysene [CAS No. 218-01-9]
- Cobalt [CAS No. 7440-48-4] and CoII chloride [CAS No. 7646-79-9]
- Coconut Oil
- Colourants
- Coriandrol (D-Linalool) [CAS No. 126-90-9]
- Cumene [CAS No. 98-82-8]
- Cyanuric acid (CYA) [CAS No. 108-80-5]
- N-cyclohexyl-2-benzothiazolesulfenamide [CAS No. 95-33-0]
- 1,2-Cyclohexane dicarboxylic acid diisononyl ester [CAS No. 166412-78-8]
- 4,4'-diaminodiphenylmethane [CAS No. 101-77-9]
- 4,4'-diaminostilbene [CAS No. 54760-75-7]
- Decabromodiphenyl ethane (DBDPE) [CAS No. 184852-53-9]
- Decabromodiphenyl ether (DecaBDE) [CAS No. 1163-19-15]
- Diantimony trioxide [CAS No. 1309-64-4]
- Di-2-ethylhexyl maleate (DEHM) [CAS No. 142-16-5]
- Dibenzo[a,h]anthracene [CAS No. 53-70-3]
- Dibenzothiazyl disulphide [CAS No. 120-78-5]
- Dichlorodiphenyltrichloroethane [CAS No. 50-29-3]
- Diisooctylphthalate [CAS No. 27554-26-3]
- 2,2-Dimethoxy-2-phenylacetophenone- DMPA [CAS No. 24650-42-8]
- Dimethylacetamide [CAS No. 127-19-5]
- Dimethylfumarate [CAS No. 624-49-7]
- Dimethylformamide (DMF) [CAS No. 68-12-2]
- 1,4-Dioxane [CAS No. 123-91-1]
- Didecyl-dimethylammonium chloride DDAC [CAS No. 7173-51-5]
- 2,4-Diethyl-9H-thioxanthen-9-one- DETX (CAS No. 82799-44-8)
- Di-o-tolylguanidine (DOTG) [CAS No. 938-22-7]

- Dioxin [CAS No 290-67-5 and CAS No. 289-87-2] and its derivatives
- Dipentamethylenethiuram disulphide (PTD) [CAS No. 94-37-1]
- Endocrine disruptors
- Epichlorhydrin [CAS No. 106-89-8]
- Epoxidised Soy-Bean Oil (ESBO)
- Epoxy resin [CAS No. 68334-76-9]
- Ethanol [CAS No. 64-17-5]
- Ethyl 4-(dimethylamino)benzoate- EDMAB [CAS No. 10287-53-3]
- 2-Ethylanthraquinone [CAS No.84-51-5]
- Ethylenediaminetetraacetic acid (EDTA) [CAS No. 60-00-4] and its salts
- Ethylene glycol dimethylacrilate (EGDMA) [CAS No. 97-90-5]
- Ethylene/methacrylic acid-Zincs copolymer
- Ethyl-acetone (methyl-propyl-ketone) [CAS No. 107-87-9]
- Ethylbenzene [CAS No. 100-41-4]
- Ethylene-oxide [CAS No. 75-21-8]
- 2-Ethylhexanoic acid [CAS No. 149-57-5]
- 2-Ethylhexyl 4-(dimethylamino)benzoate- EDHAB [CAS No. 21245-02-3]
- Fats
- Flame retardants (all)
- Fluoranthen [CAS No. 206-44-0]
- Fluoren [CAS No. 86-73-7]
- Fluorine and its derivatives
- Fluorocarbons
- Fluoroelastomers
- Fluorotelomers
- Folpet [CAS No. 1333-07-3]
- Formaldehyde [CAS No. 50-00-0]
- Fragrances
    - Allergenic fragrances (oak moss, tree moss, isoeugenol [CAS No. 97-54-1])
    - Hexyl cinnamaldehyde [CAS No. 101-86-0]
    - Cinnamyl alcohol [CAS No. 104-54-1]
    - Hydroxycitronellal [CAS No. 107-75-5]
    - Lyral (Hydroxymethylpentylcyclohexenecarboxaldehyde) [CAS No. 31906-04-4]
    - Majantol (trimethylbenzene propanol) [CAS No. 103694-68-4]
    - Furfural [CAS No. 98-01-1]
    - Lilial [CAS No. 80-54-6]
    - Coumarin [CAS No.: 91-64-5]
- Fungicide
- Furan [CAS No.: 110-00-09] and its derivatives
- Furfural [CAS No.: 98-01-1]
- Galactomannane (CAS No.: 11078-30-1)
- Glycerol [CAS No. 56-81-5]
- Glycol ethers (EGME, EGMEA, EGEEE, EGEEA)

- Glycols ethylene [CAS No.: 107-21-1] and propylene [CAS No. 57-55-6]
- Glyoxal [CAS No. 107-22-2]
- Gold (Au) [CAS No.: 7440-57-5]
- Graphite
- Halogenated Flame Retardants
- Halogenated HydroCarbons
- Herbicides
- Hexachlorobenzene (HCB) [CAS No. 118-74-1]
- Hexachlorbutadien, (HCBD) [CAS No. 87-68-3]
- Hexabromocyclododecane (HBCDD) [CAS No. 25637-99-4, 3194-55-6]
- 1-hydroxycyclohexyl phenyl ketone- HCPK [CAS No. 947-19-3]
- 4-Hydroxybenzophenone [CAS No. 1137-42-4]
- 2-Hydroxy-2-methylpropiophenone- HMPP [CAS No. 7473-98-5]
- Hydrofluorocarbon (HFC)
- Hydrochlorofluorocarbon (HCFC)
- Indeno(1,2,3-c,d)pyrene [CAS No. 193-39-5]
- Indium [CAS No. 7440-74-6]
- Insecticides
- Isopropyl thioxanthone (ITX) [CAS No. 83846-86-0, CAS No. 5495-84-1, CAS No. 75081-21-9]
- Jatropha plant derivatives
- Lanoline [CAS No. 8006-54-0]
- Latex, Natural Rubber [CAS No. 9006-04-6]
- Licareol (L-Linalool) [CAS No. 126-91-0]
- Linalool [CAS No. 78-70-6]
- Lithium Hydroxide (LiOH) [CAS No. 1310-65-2]
- Long-chain Perfluoroalkyl Carboxylates (LCPFACs)
- Mancozeb [CAS No. 8018-01-7]
- Mineral oil aromatic hydrocarbones C>24 (MOAHs)
- Mineral oil saturated hydrocarbons from C10 to C40 (MOSHs)
- Medium-chain chlorinated paraffins (MCCP), Long-chain chlorinated paraffins (LCCP)
- N-Methylpyrrolidone (NMP) [CAS No. 872-50-4]
- 4-Methylbenzophenone [CAS No. 134-84-9]
- Melamine [CAS No. 108-78-1]
- Methylene-Diphenyl-Diisocyanate (MDI) [CAS No. 101-68-8]
- 2-mercaptobenzothiazole (MBT) [CAS No. 149-30-4]
- Methanol [CAS No. 67-56-1]
- 2-Methyl-4-isothiazolin-3-one [CAS No. 2682-20-4]
- Methyl methacrylate [CAS No. 80-62-6]
- Methyldibromo glutaronitrile (MDBGN) [CAS No. 35691-65-7]
- Methylene chloride [CAS No. 75-09-2]
- Mica
- 2-(4-Morpholinylmercapto)benzothiazole [CAS No. 102-77-2]
- Musk xylene [CAS No. 81-15-2]

- Nanomaterials (including Nanoclay, Nanosilver)
- 1-Naphtol, 2-Naphtol
- Naphthalene [CAS No. 91-20-3]
- 2-Naphthylamine [CAS No. 91-59-8] and its salts
- Neomycin [CAS No 1404-04-2]
- N-butanol [CAS No. 71-36-3]
- N-Ethyl-o-toluenesulfonamide (NETSA) [CAS No. 1077-66-1]
- N-Ethyl-p-toluenesulfonamide [CAS No. 80-39-7]
- N-Isopropyl-N´-phenyl-1,4-phenylenediamine [CAS No. 101-72-4]
- Ni and Ni-compounds [CAS No. 7440-02-0]
- Nickel titanium oxide [CAS No. 12035-39-1]
- Nitrosamines
- Nitrilotriacetic acid, NTA [CAS No. 139-13-9]
- Nitrates
- Nitrite derivatives
- Nitrosoamines
- Nonylphenoxypoly(ethyleneoxy)ethanol [CAS No. 9016-45-9]
- 1-Nitropropane [CAS No. 108-03-2]
- 2-Nitropropane [CAS No. 79-46-9]
- 4-Nitro-BiPhenyl [CAS No. 92-93-3]
- Nonylphenol ethoxylates
- Novolac glycidyl ether
- Octylphenols [CAS No. 27193-28-8] and Nonylphenol [CAS No. 25154-52-3]
- o-Phenylphenol (OPP) [CAS No. 90-43-7]
- Oleamide [CAS No. 301-02-0]
- Organotin compounds
- Oxalic Acid [CAS No. 144-62-7] and its derivatives
- Palm oil
- Palm Kerner Oil
- Palladium [CAS No. 7440-05-3]
- Parabenes (Esters of Para-hydroxybenzoic-acid)
- Pentachlorthiophenol, (PCTP) [CAS No. 133-49-3]
- Pentachlorophenol (PCP) [CAS No. 87-86-5]
- PentaBDE [CAS No 32534-81-9] (pentabromodiphenyl ether) and octaBDE [CAS No. 32536-52-0] (octabromodiphenyl ether)
- Poly- and Perfluoroalkyl substances (PFAS)
- Perfluorooctane sulfonate (PFOS) [CAS No. 1763-23-1]
- Perfluorooctanoic acid (PFOA) [CAS No. 335-67-1]
- Perfluorinated carboxylic acids (PFCAs)
- Perfluorochemicals (PFCs)
- Perfluoro-alkyl- phosphate esters (PAPs)
- Perfume
- Perchlorates

- Pesticides
- Persistent and very bioaccumulative (vPvB) substances
    - Trichloroethylene [CAS No. 79-01-6]
    - Chromium trioxide [CAS No. 1333-82-0]
    - Acids generated from chromium trioxide and their oligomers,
    - Sodium dichromate [CAS No. 10588-01-9]
    - Ammonium dichromate [CAS No. 7789-09-5]
    - Potassium dichromate [CAS No. 7778-50-9]
    - Cobalt(II) sulphate [CAS No. 10124-43-3]
    - Cobalt dichloride [CAS No. 7646-79-9]
    - Cobalt(II) carbonate [CAS No. 513-79-1]
    - Cobalt(II) diacetate [CAS No. 71-48-7]
- Phenanthren [CAS No. 85-01-8]
- Phenol [CAS No. 000108-95-2] and its derivatives
- Phenol, isopropyliertes Phosphat, (PIP (3:1)) [CAS No. 68937-41-7]
- Phthalic Anhydride [CAS No. 85-44-9]
- Phthalimide [CAS No. 85-41-6]
- Phthalates:
    - Di(2-ethylhexyl)phtalate (DEHP), [CAS No. 117-81-7]
    - Dibutyl-phthalate (DBP), [CAS No. 84-74-2]
    - Benzyl butyl phthalate (BBP), [CAS No. 85-68-7]
    - Diisononyl phthalate (DINP), [CAS No. 28553-12-0]
    - Diisodecyl phthalate (DIDP), [CAS No. 26761-40-0]
    - Di-N-octyl Phthalate (DNOP), [CAS No. 117-84-0]
    - Di-benzyl phthalate [CAS No. 523-31-9]
    - Di-methyl phthalate [CAS No. 131-11-3]
    - Di-ethyl phthalate (DEP), [CAS No. 84-66-2]
    - Di-cyclo-hexyl phthalate (DCHP), [CAS No. 84-61-7]
    - Di-methoxyethyl phthalate (DMEP), [CAS No. 117-82-8]
    - Di-(methylcyclohexyl) phthalate (DMCHP), [CAS No. 27987-25-3]
    - Other phthalates
- P-Hydroxybenzoic Acid [CAS No. 99-96-7]
- p-Phenylenediamine [CAS No. 106-50-3]
- Plasticizers
- Pigment Green 50 [CAS No. 68186-85-6]
- Polyamide-6
- Polyacrylonitrile (PAN) [CAS No. 25014-41-9]
- Polylactic acid (PLA) [CAS No. 26100-51-6]
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Dibenzodioxin (PCDDs) and dibenzofurans
- Polychlorinated Furanes (PCDFs)
- Polychlorinated Naphthalenes (PCNs)

- Polychlorinated Terphenyls (PCTs)
- Polychlorinated Diphenyl Ethers (PCDEs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polycarbonate (PC) [CAS No. 25037-45-0]
- Polyethylene terephthalate (PET) [CAS No. 25038-59-9]
- Polytetrafluorethylene (PTFE, TEFLON) [CAS No. 9002-85-1] and [CAS No. 9002-84-0]
- Polyvinylalcohol [CAS No. 9002-89-5]
- Preservative / disinfectant
    - 2-Chloroacetamide [CAS No. 79-07-2]
    - Chlorphenesin [CAS No. 886-74-8]
    - Climbazole [CAS No. 38083-17-9]
    - Ethyl Lauroyl Arginate-HCl [CAS No. 60372-77-2]
    - Isothiazolinone [CAS No. 1003-07-2]
    - Methylisothiazolinone [CAS No.2682-20-4]
    - Methylchloroisothiazolinone (CAS No. 26172-55-4]
    - Benzisothiazolinone (CAS No. 2634-33-5]
    - o-Phenylphenol [CAS No. 90-43-7]
- Propolis [CAS No. 9009-62-5]
- Proteines
- PVC [CAS No. 9002-86-2] and PVDC [CAS No. 9002-85-1]
- Pyrene [CAS No. 129-00-0]
- Radioactive substances/elements
- Quaternary Ammonium Compounds
- Radon (Rn) [CAS No 10043-92-2]
- Release additives
- Resorcinol; 1,3-benzenediol [CAS No. 108-46-3]
- Rosin from wood [CAS No. 8050-09-7]
- Rubber (Synthetic and Natural)
- Recycled material
- Colophony (Gum rosin) [CAS No. 8050-09-7]
- Semicarbazide [CAS No. 57-56-7]
- Short Chain Chlorinated Parrafins (SCCP) [CAS No. 85535-84-8]
- Silicone [CAS No. 90337-93-2] and silica gel [CAS No. 99439-28-2]
- Siloxane D4 [CAS No. 556-67-2]
- Siloxane D5 [CAS No. 541-02-6]
- Silver [CAS No. 7440-22-4]
- Softeners
- Styrene [CAS No. 100-42-5]
- Sulphur dioxide [CAS No. 7466-09-5]
- Sulfates

- sum of Benzophenone + 4-Methylbenzophenone + 4-hydroxybenzophenone (CAS No. 119-61-9, CAS No. 134-84-9 and CAS No. 1137-42-4)
- Vinyl Chloride [CAS No. 75-01-4]
- Tannic acid [CAS No. 1401-55-4]
- Tartrazine [CAS No. 1934-21-0]
- TBT (Tributyl-tin), DBT (dibutyl-tin) and MBT (monobutyl-tin) and dioctyltin compounds (DOT) and other organo-tin compounds
- Terephthalic acid [CAS No. 100-21-0]
- Tetrabromobisphenol A (TBBPA) [CAS No. 79-94-7]
- Tetrachloroethene (PERC) [CAS No. 127-18-4]
- Tetraethyleneglycol dimethacrylate (TEGDMA) [CAS No. 109-16-0]
- Tetraethylthiuram disulphide (TETD) [CAS No. 97-77-8]
- Tetramethylthiuram disulphide (TMTD) [CAS No. 137-26-8]
- Tetramethylthiuram monosulphide (TMTM) [CAS No. 97-74-5]
- Thiuram mix
- Titanium acetyl acetonate (TAA) [CAS No. 17501-79-0]
- Thorium [CAS No. 7440-29-1]
- Tin oxide, Cassiterite [CAS No. 8062-08-6]
- Titanium dioxide [CAS No. 1317-70-0]
- Trans-2 nonenal [CAS No. 18829-56-6]
- Trichlorbenzene [CAS No. 12002-48-1]
- Trichloroethene (TCE) [CAS No. 79-01-6]
- Triclosan [CAS No. 3380-34-5]
- Triethanolamine [CAS No. 102-71-6]
- Trikesylphosphate, Tritolyl phosphate [CAS No. 78-30-8]
- Tris (nonylphenyl) phosphite (TNPP) [CAS No. 3050-88-2]
- Tris(2-butoxyethyl) phosphate (TBEP) [CAS No. 78-51-3]
- 2,4,6-tris(tert-Butyl) phenol, (TTBP) [CAS No. 732-26-3]
- Tris(2-nonylphenyl) phosphite (TNPP) [CAS No. 26523-78-4]
- Trimethylbenzenes
- Toluene [CAS No. 108-88-3]
- Turpentine [CAS No. 8006-64-2]
- UV Filters UV stabilizers
    - 2,2’-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (MBBT) [CAS No. 103597-45-1]
    - 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol [CAS No. 25973-55-1]
    - Camphor Benzalkonium Methosulfate [CAS No. 52793-97-2]
    - 3-benzylidene-camphor [CAS No. 15087-24-8]
    - Benzophenone-1 / -2 / -3 [CAS No. 92092-63-2, CAS No. 131-55-5, CAS No. 131-57-7]
    - Ethylhexyl-Methoxycinnamate (OMC) [CAS No. 5466-77-3]
    - Octocrylene, Etocrylene [CAS No. 6197-30-4, CAS No. 5232-99-5]
    - Homosalate [CAS No. 118-56-9]
    - 4-Methylbenzylidene Camphor (MBC) [CAS No. 36861-47-9]

- Octyl-Dimethyl-p-Aminobenzoic-Acid (OD-PABA) [CAS No. 58817-05-3]
- Vinyl acetate [CAS No. 108-05-4]
- Vinylidene chloride (VDC) [CAS No. 75-35-4]
- Water repellents
- Xenohormones
- Xylenes [CAS No. 1330-20-7]

DISCLAIMER

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TECHNIKAI ADATLAP

POLIETILÉN TIPELIN 6300B

HDPE fúvási típus

TERMÉKLEÍRÁS

TIPELIN 6300B nagysűrűségű, bimodális polietilén butén-1 kopolimer. Nagy merevséggel és jó feszültségkorróziós ellenállással (ESCR) rendelkező fúvott termékek előállítására alkalmas típus. Antioxidáns és savmegkötő adalékrendszerrel rendelkezik.

ALKALMAZÁSI TERÜLET

TIPELIN 6300B típus vékonyfalú, kisebb térfogatú, háztartási vegyszerek (pl. mosószerek, tisztítószerek, kozmetikumok stb.), valamint UN engedélyhez kötött agresszív ipari vegyszerek tárolására alkalmas termékek előállítására ajánlott 10 liter térfogatig. Továbbá alkalmas korrugált csövek előállítására is.

Az itt felsorolt alkalmazások csak ajánlások, nem nyújt garanciát. A végfelhasználónak a kötelessége azon vizsgálatok elvégzése, amely megállapítja, hogy az adott polimer alkalmas-e a tervezett felhasználásra. Ide tartozik a végtermékekre vonatkozó előírásoknak a megfelelőségi vizsgálata is pl. élelmiszerrel való érintkezés. Termékbiztonsággal kapcsolatos további információkért, kérjük tekintse meg a megfelelőségi nyilatkozatot (DDS).

A TERMÉK MEGFELELŐSÉGE

Lásd a Megfelelőségi nyilatkozatot (DDS).

FIZIKAI TULAJDONSÁGOK*

Paraméter	Megjegyzés	Vizsgálati módszer	Mértékegység	Tipikus érték
MFR - Folyásindex (190°C, 2,16 kg)	-	ISO 1133-1	g/10 perc	0,3
MFR - Folyásindex (190°C, 5 kg)	-	ISO 1133-1	g/10 perc	1,3
MFR - Folyásindex (190°C, 21,6 kg)	-	ISO 1133-1	g/10 perc	30
Sűrűség (23°C)	3	ISO 1183-2	kg/m³	954
Húzófeszültség folyáshatárnál	3	ISO 527-3	MPa	28
Nyúlás folyáshatárnál	3	ISO 527-3	%	10
Szakítószilárdság	3	ISO 527-3	MPa	20
Szakadási nyúlás	3	ISO 527-3	%	1100
Rugalmassági modulusz (hajlításból)	3	ISO 178	MPa	1500
Izod ütőszilárdság (bemetszett, 23°C)	3	ISO 180/A	kJ/m²	8,5
Shore D keménység	3	ISO 868	-	65
Vicat lágyulási hőmérséklet	3	ISO 306/A 120	°C	128
ESCR F50 B (10% Igepal CO-630)	3	ASTM D1693	óra	350
OIT - Oxidációs indukciós idő (200°C)	-	EN 728	perc	30
Ajánlott feldolgozási hőmérséklet	-	-	°C	180 - 220

*A megadott adatok nem garantált értékek.

(3) ISO 293 szabvány szerint préselt lapból készített, ISO 291 szabvány szerint kondicionált próbatesteken végzett mérések átlagértékei.

FELDOLGOZÁS

TIPELIN 6300B szokásos feldolgozó gépeken problémamentesen feldolgozható.

TECHNIKAI ADATLAP

POLIETILÉN TIPELIN 6300B

HDPE fúvási típus

TÁROLÁS

A granulátum 25 kg-os polietilén zsákokban kerül kiszerelésre. Szállításuk zsugor- vagy sztreccs-csomagolással biztosított raklapokon történik, a rakománysúly 1375 kg polimer. A zsákok között ragasztóanyag található, ezzel elkerülhető a zsákok egymáson történő elcsúszása. A raklapról történő lerakodás során javasoljuk ezt figyelembe venni. A zsákok lerakodása során javasoljuk előbb felemelni a zsákot, majd csak ezt követően elforgatni és elvenni. A hőkezelt raklapokat a PRS, a Faber Halbertma csoport tagja biztosítja, egy olyan gyűjtőrendszert üzemeltetve, amely használat után összegyűjti a raklapokat, és megszervezi az újrafelhasználást a fenntartható, körkörös rendszer részeként. A PRS raklapok mindig a PRS tulajdonát képezik. Ezen felül közúti vagy vasúti silós kiszállításra is van mód. További részletes információért keressék a SLOVNAFT a.s. és a MOL Petrolkémia Zrt. kereskedelmi képviselőit.
Mivel a polietilén éghető anyag, figyelembe kell venni raktározása során az éghető anyagokra vonatkozó tűzvédelmi szabályokat. Amennyiben a polimert nagy páratartalmú és változó hőmérsékletű körülmények között tárolják, akkor a légkör nedvességtartalma lecsapódhat a csomagolás belső oldalán. Amennyiben ez megtörténik, ajánlatos a granulátumot feldolgozás előtt megszárítani. Tárolás alatt óvni kell a polietilént az UV sugárzástól és a 40 °C feletti hőmérséklettől, illetve távol kell tartani a közvetlen lángtól és az egyéb gyújtóforrásoktól. A gyártó nem vállal felelősséget a nem megfelelő tárolás okozta károsodásért.

REACH NYILATKOZAT

A polimerek nem tartoznak REACH regisztrációs kötelezettség alá. Mindazonáltal a gyártáshoz használt nyersanyagokat (monomerek, katalizátorok és az érintett alapanyagok) regisztráltuk. A MOL Petrolkémia Zrt. teljes mértékben aláveti magát ezen törvényeknek, és csak a REACH-nek megfelelő alapanyagokat használ a gyártás során. Jelenlegi TIPELIN típusaink nem tartalmaznak 0,1%-nál nagyobb mennyiségben ún. különös aggodalomra okot adó (SVHC) anyagokat.

ÚJRAFELDOLGOZÁS

A Polietilént megfelelő tisztítási és előkészítési folyamatok után különösebb nehézség nélkül újra fel lehet dolgozni. Mivel az újra feldolgozott polimer az előző feldolgozás során már egyszer termikus degradációnak volt kitéve, ezért az újrafeldolgozás során a mechanikai tulajdonságai megváltozhatnak. Ezért célszerű megvizsgálni, hogy az újrafeldolgozás milyen hatást gyakorol a végtermék minőségére.

BIZTONSÁGI ELÖÍRÁSOK

Lásd a Biztonsági adatlapot.

TECHNIKAI ADATLAP

POLIETILÉN TIPELIN 6300B

HDPE fúvási típus

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NYILATKOZAT

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