

POLIETILÉN TIPOLEN FD 243-55

LDPE fólia típus

TERMÉKLEÍRÁS

TIPOLEN FD 243-55 kissűrűségű polietilén fólia típus. Az ebből készült filmek kiváló mechanikai és optikai tulajdonságokkal rendelkeznek. A termék csúsztató és blokkolásgátló adalékanyagot tartalmaz.

ALKALMAZÁSI TERÜLET

TIPOLEN FD 243-55 nagy átlátszóságú fóliák, kupakok gyártására alkalmas.

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	4
Sűrűség (23°C)	3	ISO 1183-2	kg/m³	922
Szakítószilárdság (H/K)	11	ISO 527-1,3	MPa	19 / 15
Szakadási nyúlás (H/K)	11	ISO 527-1,3	%	270 / 500
Dart ejtőszilárdság	11	ISO 7765-1 A módszer	g	80
Homályosság	11	ISO 14782	%	9
Vicat lágyulási hőmérséklet	3	ISO 306/A 120	°C	94
Blokkolásgátló-szer	-	Belső módszer	ppm	1400
Csúsztatószer	-	Belső módszer	ppm	700
Ajánlott film vastagság	-	-	mm	0,015 - 0,04
Ajánlott feldolgozási hőmérséklet	-	-	°C	150 - 190

*A megadott adatok nem garantált értékek.

(3) ISO 293 szabvány szerint préselt lapból készített, ISO 291 szabvány szerint kondicionált próbatesteken végzett mérések átlagértékei.
(11) A mechanikai tulajdonságok 2:1 felfúvási aránnyal húzott 0,07 mm (0,3 g/10 perc) vagy 0,04 mm (>0,3 g/10 perc) vastagságú fólián elvégzett nagyszámú mérések átlagértékei (H = hosszirány, K = keresztirány).

FELDOLGOZÁS

TIPOLEN FD 243-55 szokásos feldolgozó gépeken problémamentesen feldolgozható.

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TÁROLÁS

A granulátum 25 kg-os polietilén zsákokban kerül kiszerezésre. 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 megszáritani. 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 TIPOLEN 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 ELŐÍRÁSOK

Lásd a Biztonsági adatlapot.

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GYÁRTÓ

MOL Petrolkémia Zrt.
H-3581 Tiszaújváros,
Pf.: 20
Magyarország

NÉMETORSZÁG

MOL Germany GmbH
Ottostrasse 5
D-80333 München, Germany
Tel.: +49 69 154 04 0
Fax: +49 69 154 04 41
E-mail:
polymersales@molgermany.de

ROMÁNIA

MOL Romania Petroleum Products SRL
Str. Daniel Danielopolu 4-6
ET1 Sector 1 Cod 014 134
Bucuresti, Romania
Mobil: +40 730 33 60 02
E-mail: petchem@molromania.ro

TECHNIKAI TÁMOGATÁS

POLIMER ALKALMAZÁSOK MÉRNÖKSÉG
H-3581 Tiszaújváros,
Pf.: 20
Magyarország
Telefon:
+36 49 521 540
+36 80 204 248
E-mail: pts@mol.hu
MOL Nyrt.

OLASZORSZÁG

MOL Italia S.r.l.
Via San Vigilio, 1
20142 Milano (MI)
Tel.: +39 02 58 30 5523
E-mail: molitalia@molgroupitaly.it

UKRAJNA

MOL Ukraine Llc.
04053 Kyiv
Sichovykh Striltsiv str. 50, 5th floor, office
5-B, Ukraine
Tel.: +380 44 374 00 80
Mobile: +380 67 463 58 69
Fax: +380 44 374 00 90
E-mail: Jzavojko@mol-ukraine.com.ua

ÉRTÉKESÍTÉS

MAGYARORSZÁG

MOL Nyrt.
3581 Tiszaújváros, Pf. 20
Pf.: 20, Magyarország
Mobil: +36 30 411 0543
E-mail: polymersales@mol.hu

SZLOVÁK ÉS CSEH KÖZTÁRSASÁG

SLOVNAFT, a.s.
Vlčie hrdlo 1
824 12 Bratislava, Slovak Republic
Mobil:
+421 907 704 627
+421 918 716 113
+421 910 841 456
E-mail: predajpolymerov@slovnaft.sk

AUSZTRIA

MOL Austria Handels GmbH
Walcherstrasse 11A, 7.Stock
A-1020 Wien, Austria
Mobil: +43 664 96 33 578
E-mail:
KatalinHorvath@molaustria.at

FRANCIAORSZÁG

Zoltán Marton
Mobil: +39 335 572 2306
E-mail:
zoltan.marton@molgroupitaly.it

LENGYELORSZÁG

Slovnaft Polska S.A.
PL.Blankowy 1
00-139 Warszawa, Poland
Tel.: +48 22 545 70 70
E-mail: petchem@slovnaft.pl

HORVÁTORSZÁG, SZLOVÉNIA, SZERBIA, MONTENEGRO, BOSZNIA ÉS HERCEGOVIA, ÉSZAK-MACEDÓNIA, ALBÁNIA, KOSZOVÓ

TIFON d.o.o.
Zadarska 80
HR-10000 Zagreb, Croatia
Mobil: +385 91 4641 023
Fax: +385 1 6160 601
E-mail: polymersales@tifon.hr

MÁS EURÓPAI ORSZÁGOK

MOL Plc.
Tel.: +36 20 456 1889 | +36 70 373 9209
E-mail: polymersales@mol.hu

NYILATKOZAT

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Polyethylene TIPELIN 1100J

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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GENERAL PROPERTIES

Characteristic: High density bimodal polyethylene copolymer granulate intended for making daily necessities, kitchen housewares, boxes, crates, trays, toys, caps, cartridges.

Used monomer: ethylene (CAS No.: 74-85-1)

Used Co-monomer: 1-Butene (CAS No.: 106-98-9)

Applied Catalyst system: Ziegler-Natta

Type of polymerization / License: free radical polymerization / Mitsui

Shelf life: quality of this product is stable for 1 year after the production if the storage conditions fulfill the requirements of Technical Data Sheet

FOOD CONTACT APPLICATION

The composition of this product as supplied from our factory complies with the requirements for use in contact with food of:

Commission Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on materials and articles intended to come into contact with food,

Commission Regulation (EU) No. 10/2011 (14 January 2011) on plastic materials and articles intended to come into contact with food and its amendments such as 1282/2011/EC (28 November 2011), 1183/2012/EC (30 November 2012), 202/2014/EC (3 March 2014), 2015/174/EC (5 February 2015), 1416/2016/EC (24 August 2016), 2017/752 EC (28 April 2017) and 2018/79 (18 January 2018) (applies to all EU-Member States).

We declare that we use monomers and additives in our production only which are listed in union list of authorized monomers, other starting substances, additives, and polymer production aids of Directive 10/2011/EC ANNEX I.

Based on migration experiments with test samples made of this polymer and carried out in the presence of the standard food simulants A, B, C and D 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.

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/dm² on the overall migration from finished plastic articles into food. In accordance with EU-Directive 10/2011/EC the migration 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.

During production of above mentioned product we do not use any SML specified monomers and do not use any SML specified additives according to EU-Directive 10/2011/EC Annex I.

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EU-Directive 10/2011/EC does not specify residual quantity (QM) limitations on the individual components of this resin.

Dual Use Additives: The information provided concerning additives which are also food additives and flavouring 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.

REGULATION (EC) NO 2023/2006 (22ND OF DECEMBER 2006) ON GOOD MANUFACTURING PRACTICE FOR MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD

We declare that production of this product runs under established, implemented and observed effective and documented quality assurance system certified by ISO 9001, ISO14001 and OHSAS 18001 so that, under normal or foreseeable conditions of use, its constituents can not 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 characteristics.

We fulfill the general rules on GMP as laid down in the Articles 5, 6 and 7 of 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 (16 December 1999) on minimum requirements for improving the safety and health protection of workers potentially at risk from explosive atmospheres.

US FOOD AND DRUG ADMINISTRATION (FDA)

This product corresponds FDA (Food and Drug Administration of the USA) – Code of Federal Regulations – Title 21 § 177.1520 (a)(3)(i)(c1) related specification: 2.1 and 2.2

EUROPEAN PHARMACOPOEIA (EP) 3.1.3. POLYOLEFINES CHAPTER, 9TH EDITION

This product complies to EP requirements.

KUNSTOFFE Technische Wasser (KTW) declaration

This product is not tested for KTW recommendation.

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Directive 2007/68/EC (27 November 2007) amending Annex IIIa to Directive 2000/13/EC regards certain food ingredients (Allergens)

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

Note: 2000/13/EC, 2003/89/EC, 2006/142/EC has been amended by 2007/68/EC

Directive 67/548/EEC (27 June 1967) with pertaining 29 amendments, Directive 1999/45/EC (31 May 1999) and Directive 1272/2008 (16 December 2008) relating to the classification, packaging and labelling of dangerous substances

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 the production of above mentioned product we do not use intentionally any carcinogenic, mutagenic or toxic substances (CMR substances) to reproduction according with the 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

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) and does not contain any hazardous substances which are mentioned in CFR 16 Part 1500.

DIRECTIVE 94/62/EC (20TH OF DECEMBER 1994) ON PACKAGING AND PACKAGING WASTE AND ITS AMENDMENT 2004/12/EC

Heavy metals (like cadmium, lead, mercury, hexavalent chromium (CrVI)) and their compounds are not used in manufacturing of, and therefore are not expected to be present in the above mentioned polymer. Therefore it can be declared that this product, as well as the product packaging material, is in compliance with the concentration levels of heavy metals specified in Article 11, item1 of EU-Directive 94/62/EC. This product meets requirements of less than 100 ppm for total incidental cadmium,

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chromium, lead and mercury. In addition, this product has the potential to be recycled according to these requirements.

Directive 76/768/EEC of 27 July 1976 on the approximation of the 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 the chemicals are listed 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 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 the requirements of the 1223/2009/EC. However, this product has not been tested by Regulation (EC) 1223/2009.

Directive 76/769/EEC (27 July 1976) relating to restrictions on the marketing and use of certain dangerous substances and preparations and its amendments

Polychlorinated biphenyls (PCB) and Polychlorinated ter-phenyls (PCT) are not used in our production technologies and they are not intentionally incorporated into this polymer mentioned by EU-Directive 76/769/EEC. However, this product has not been tested for these chemical substances.

Note: Directive 76/769/EEC is superseded by Annex XVII of the REACH Regulation 1907/2006/EC - restrictions on the manufacturing, placing on the market and use of certain dangerous substances, preparations and articles

REGULATION (EC) NO 1005/2009 of the (16 September 2009) on substances that deplete the ozone layer ODS (Ozone Depleting Substances such as CFC's, HCFC's, Halons, CCl₄, Trichloroethane, HBFC's)

We certify, 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.

Note: Directive 2037/2000 EEC is repealed with effect from 01 January 2010.

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Regulation (EC) No 850/2004 (29 April 2004) on persistent organic pollutants and amending Directive 79/117/EEC

We certify, that during manufacturing of this product, we do not intentionally incorporate into this product, any of the chemicals as 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. However, this product has not been tested for these chemical substances.

Directive 2005/84/EC relating to restrictions on the marketing and use of phthalates in toys and childcare articles

Phthalates such as DEHP, DBP, BBP, DINP, DIDP, DNOP are not used intentionally in manufacturing of, and therefore are not expected to be present in this polymer. This polymer corresponds with Directive 2005/84/EC of the European Parliament and of the Council of 14 December 2005.

Other Phthalates listed below are not in used intentionally in manufacturing of and therefore are not expected to be present in this polymer. However, this product has not been tested for these chemical substances.

- Di-benzyl phthalate
- Di-methyl phthalate
- Di-ethyl phthalate (DEP)
- Di-cyclo-hexyl phthalate (DCHP)
- Di-methoxyl-ethyl phthalate (DMEP)
- Di-methyl-cyclo-hexyl phthalate (DMCHP)
- Other phthalates

Directive 2011/65/EC (8 June 2011) on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Heavy metals like cadmium, lead, mercury, hexavalent chromium (CrVI) and their compounds and polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) restricted (max. 0,1%) by ANNEX II of this regulation are not incorporated into this polymer intentionally during production.

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

Directive 2000/53/EC (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.

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GADSL Declaration

Hereby following substances are listed below which are indicated in Global Automotive Declarable Substance List (2013 GADSL v1.0, Released 01.02.2013) and they are present in this polymer product: There is not GADSL substance in 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.

Flammability behavior

Information about flammability behavior : no information

Regulation (EC) No 1895/2005 (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 these chemical substances.

Directive 2003/11/EC (6 February 2003) on the marketing and use of certain dangerous substances and preparations (pentabromodiphenyl ether, octabromodiphenyl ether)

Dangerous substances pentaBDE (pentabromodiphenyl ether) and octaBDE (octabromodiphenyl ether) 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 these chemical substances.

Directive 2009/48/EC (18 June 2009) on the safety of TOYS and EN 71-3 and EN 71-9

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. However, this product has not been tested for these chemical substances.

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According to the analytical test results of more polymer material produced by MOL Petrochemicals Co. Ltd. we certify that this product fulfills the requirements of European Standard EN 71 "Safety of Toys", Part 3 (2013) by Directive EU 2009/48/EC as amended in July 2013.

Moreover EN 71- Part 9 (2005) "Organic chemical compounds - Requirements" (none of the substances listed in Tables 2 A-I are intentionally added). 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.)

TALLOW AND ITS DERIVATES (BSE/TSE)

The concerns relative to BSE/TSE in the context of plastics 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.

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.

NANOTECHNOLOGY

We certify, that during manufacturing of this product, we do not use Nanotechnology or nanomaterials according to COMMISSION RECOMMENDATION 2011/696/EU (of 18 October 2011) on the definition of nanomaterial.

GMO declaration

We certify, that product does not intentionally contain any genetically modified organisms.

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 these.

- Antimony (Sb)
- Arsenic (As)
- Conflict minerals: Gold (Au), Tantalum (Ta), Tin (Sn), Tungsten (W)
- Halogens (fluor, brom, iod)

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- Phosphorous (yellow and red)
- Rare Earth Elements
- Selenium (Se)
- Uranium (U)

We must 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 are listed below and therefore 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]
- Acenaphthylene [CAS No. 208-96-9]
- Acenaphthene [CAS No. 83-32-9]
- Acetyl tributyl citrate [CAS No. 77-90-7]
- 4-Aminobiphenyl [CAS No. 92-67-1] and its salts
- Anthracen [CAS No. 120-12-7]
- Antrachinon [CAS No. 84-65-1]
- Acrylamide [CAS No. 79-06-1]
- 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]
- Alkyl phenols (APs) derivatives like Ethoxylates (APEOs) and Amines
- Azocolorants (restricted by Directive 2002/61/EC)
- 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]

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- 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]
- Benzophenone [CAS No. 119-61-9]
- Benzylbenzoate [CAS No.: 120-51-4]
- Beryllium compounds (including: beryllium-oxide) and beryllium alloy
- Biocides
- Bisphenol A (BPA) [CAS No. 80-05-7], Bisphenol B (BPB) [CAS No. 77-40-7], Bisphenol F (BPF) [CAS No. 620-92-8] and Bisphenol S (BPS) [CAS No. 80-09-01]
- Bis(chloromethyl)ether (BCME) [CAS No. 542-88-1]
- Bis(2-butoxyethyl) adipate [CAS No. 141-18-4]
- Blue colorants
- 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
- Butylated Hydroxytoluene (BHT) [CAS No. 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No. 25013-16-5]
- Catenex PH 941
- Cellulose Acetate [CAS No. 9004-35-7]
- Chlorinated alkyl benzenes (CABs)
- Chrysene [CAS No. 218-01-9]
- Cobalt-dicloride [CAS No. 7646-79-9]
- 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]
- Dibenzo[a,h]anthracene [CAS No. 53-70-3]
- Dichlorodiphenyltrichloroethane [CAS No. 50-29-3]
- Dimethylacetamide [CAS No. 127-19-5]
- Dimethylfumarate [CAS No. 624-49-7]
- Dimethylformamide (DMF) [CAS No. 68-12-2]
- Didecyl-dimethylammonium chloride DDAC [CAS No. 7173-51-5]
- Di-o-tolylguanidine (DOTG) [CAS No. 938-22-7]
- Dioxin [CAS No. 290-67-5] and its derivatives
- Epichlorhydrin [CAS No. 106-89-8]

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- Epoxidised Soy-Bean Oil (ESBO)
- Ethylenediaminetetraacetic acid (EDTA) [CAS No. 60-00-4] and its salts
- Ethylene glycol dimethylacrylate (EGDMA) [CAS No. 97-90-5]
- Ethylene/methacrylic acid-Zincs copolymer
- Ethyl-acetone (methyl-propyl-ketone) [CAS No. 107-87-9]
- Ethylene-oxide [CAS No. 75-21-8]
- 2-Ethylhexanoic acid [CAS No. 149-57-5]
- Fats
- Flame retardants (all)
- Fluoranthene [CAS No. 206-44-0]
- Fluorene [CAS No. 86-73-7]
- Fluoroelastomers
- 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]
 - Lyrall (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]
- Glycerol [CAS No. 56-81-5]
- Glycols ethylene [CAS No. 107-21-1] and propylene [CAS No. 57-55-6]
- Halogenated HydroCarbons
- Herbicides
- Hexachlorobenzene (HCB) [CAS No. 118-74-1]
- Hexabromocyclododecane (HBCDD) [CAS No. 25637-99-4, 3194-55-6]
- 4-Hydroxybenzophenone (CAS No.: 1137-42-4)
- Indeno(1,2,3-c,d)pyrene [CAS No. 193-39-5]
- Insecticides
- Isopropyl thioxanthone (ITX) [CAS No. 83846-86-0]
- Latex and Natural rubbers
- Lithium Hydroxide (LiOH) [CAS No. 1310-65-2]

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- Long-chain Perfluoroalkyl Carboxylates (LCPFACs)
- Mineral oil aromatic hydrocarbons C_{>24} (MOAHs)
- Mineral oil saturated hydrocarbons from C₁₀ to C₄₀ (MOSHs)
- N-Methylpyrrolidone (NMP) [CAS No. 872-50-4]
- 4-Methylbenzophenone [CAS No.: 134-84-9]
- Musk xylene [CAS No. 81-15-2]
- Nanomaterials (including Nanoclay, Nanosilver)
- Naphthalene [CAS No. 91-20-3]
- 2-Naphthylamine [CAS No. 91-59-8] and its salts
- 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]
- Ni and Ni-compounds
- Nickel titanium oxide [CAS No. 12035-39-1]
- Nitrosamines
- Nitrilotriacetic acid, NTA [CAS No. 139-13-9]
- Nitrite derivatives
- 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]
- Melamine [CAS No. 108-78-1]
- Methylene-Diphenyl-Diisocyanate (MDI) [CAS No. 101-68-8]
- Octylphenols [CAS No. 27193-28-8] and Nonylphenol [CAS No. 25154-52-3]
- o-Phenylphenol (OPP) [CAS No. 90-43-7]
- Oxalic Acid [CAS No. 144-62-7] and its derivatives
- PALM oil, Coconut Oil and Palm Kernel Oil
- Parabenes (Esters of Para-hydroxybenzoic-acid)
- Pentachlorophenol (PCP) [CAS No. 87-86-5]
- Perfluoroalkyl Sulfonate (PFAS)
- Perfluorooctane sulfonate (PFOS) [CAS No. 1763-23-1]
- Perfluorooctanoic acid (PFOA) [CAS No. 335-67-1]
- Perfluorinated carboxylic acids (PFCAs)
- Perfluoro-alkyl- phosphate esters (PAPs)
- Pesticides
- Persistent and very bioaccumulative (vPvB) substances
 - Trichloroethylene [CAS No. 79-01-6]
 - Chromium trioxide [CAS No. 1333-82-0]

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- 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
- Phthalic Anhydride [CAS No. 85-44-9]
- P-Hydroxybenzoic Acid [CAS No. 99-96-7]
- Pigment Green 50 [CAS No. 68186-85-6]
- Polyamide-6
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Dibenzodioxin (PCDDs)
- Polychlorinated Furanes (PCDFs)
- Polychlorinated Terphenyls (PCTs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polycyclic aromatic hydrocarbons (PAHs)
- PolytetrafluoroEthylene (PTFE, TEFLON) [CAS No. 9002-84-0]
- 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]
- Proteines
- PVC [CAS No. 9002-86-2] and PVDC [CAS No. 9002-85-1]
- Pyrene [CAS No. 129-00-0]
- Quaternary Ammonium Compounds
- Rosin from wood [CAS No. 8050-09-7]

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- Rubber (Synthetic and Natural)
- Semicarbazide [CAS No. 57-56-7]
- Short Chain Chlorinated Paraffins (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]
- Softeners
- Styrene [CAS No. 100-42-5]
- Sulfates
- 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
- Tetrabromobisphenol A (TBBPA) [CAS No.: 79-94-7]
- Tetrachloroethene (PERC) [CAS No.: 127-18-4]
- Tetraethyleneglycol dimethacrylate (TEGDMA) [CAS No. 109-16-0]
- Titanium acetyl acetonate (TAA) [CAS No.: 17501-79-0]
- Trans-2 nonenal [CAS No. 18829-56-6]
- Trichlorobenzene [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]
- Trioxide D'antimoine (CAS-Nr. 1309-64-4)
- Tris (nonylphenyl) phosphite (TNPP) [CAS No.: 3050-88-2]
- Tris(2-butoxyethyl) phosphate (TBEP) [CAS No. 78-51-3]
- Toluene [CAS No. 108-88-3]
- UV Filters
 - 2,2'-Methylene-bis-(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) (MBBT) [CAS No. 103597-45-1]
 - 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, 131-55-5, 131-57-7]
 - Ethylhexyl-Methoxycinnamate (OMC) [CAS No. 5466-77-3]
 - Octocrylene, Etocrylene [CAS No. 6197-30-4, 5232-99-5]
 - Homosalate [CAS No. 118-56-9]
 - 4-Methylbenzylidene Camphor (MBC) [CAS No. 36861-47-9]

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- Octyl-Dimethyl-p-Aminobenzoic-Acid (OD-PABA) [CAS No. 58817-05-3]
- Xenohormones
- Xylenes [CAS No. 1330-20-7]

DISCLAIMER

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Date of Issue: 23 April 2018

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GENERAL PROPERTIES

Characteristics: Low density polyethylene granulate intended for blown film application

Used monomer: ethylene (CAS No.: 74-85-1)

Used comonomer: not used

Applied catalyst system: not used

License: LyondellBasell

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: Commission 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.

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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/dm² 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 TIPOLEN FD 243-55 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. Silicon-dioxide (CAS No.: 14464-46-1; natural origin) as E 551 used max. 1700 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.

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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.

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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 do not use or intentionally add animal origin substances.

Tallow and its derivatives (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. We certify, that during manufacturing of this product, we do not use or intentionally incorporate into this product ethanol and porcines.

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BfR (Bundesinstitut für Risikobewertung) III. Polyethylene

This product meets requirements given by BfR (Bundesinstitut für 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 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)(2)(i):

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.

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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 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

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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.

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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
	13560-89-9
Dechlorane Plus (includes its syn-isomer and anti-isomer)	135821-03-3
	135821-74-8
Dicofol	115-32-2
Dieldrin	60-57-1
	959-98-8
Endosulfan	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
	25637-99-4
Hexabromocyclododecane and its diastereoisomers	3194-55-6
(alpha-hexabromocyclododecane, beta-hexabromocyclododecane,	134237-50-6
gamma-hexabromocyclododecane)	134237-51-7
	134237-52-8
Hexabromodiphenyl ether	36483-60-0 and others

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Hexachlorobenzene (HCB)	118-74-1
Hexachlorobutadiene (HCBd)	87-68-3
	58-89-9
Hexachlorocyclohexanes, including lindane	319-84-6
	319-85-7
	608-73-1
	72-43-5
	30667-99-3
	76733-77-2
Methoxychlor	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
	1763-23-1
	2795-39-3
	29457-72-5
	29081-56-9
	70225-14-8
Perfluorooctane sulfonic acid and its derivatives (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOS-F) and others	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.

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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

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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: contain the substance with CAS No. 7631-86-9 (Silicon dioxide) . Reason for declaration: for information purposes.

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.

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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, chlorine)
- Phosphorous (yellow and red)
- Rare Earth Elements
- Selenium (Se)
- Sulphur (S)
- Uranium (U)

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]
- Acenaphthylene [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]

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- Alkylphenols
- Alkyl phenol Ethoxylates (APE)
- Alkylphenolphosphates
- 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

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- Boron and its derivatives
- 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 Coll 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]

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- 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)
- Fluoranthene [CAS No. 206-44-0]
- Fluorene [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]
 - Lylal (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)

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- 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]

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- 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)
- Pentachlorothiophenol, (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

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- 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)phthalate (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)

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- 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 Paraffins (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

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- 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]
- Trichlorobenzene [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]

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- 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]

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