

DECLARATION DATA SHEET

POLYPROPYLENE TATREN HM 50 46

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provide infinite opportunities

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 (of 14 January 2011) on plastic materials and articles intended to come into contact with food and its amendments:

Commission Regulation (EU) No. 1282/2011 (of 28 November 2011), No. 1183/2012 (of 30 November 2012) No. 202/2014 (of 3 March 2014) on plastic materials and articles intended to come into contact with food

(Applies to all EU-Member States)

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 (3% acetic acid), D1 (50% ethanol), E (MPPO) 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.

Based on migration experiments with test samples made of this polymer we confirm that specific migration limits of Ba, Co, Cu, Fe, Li, Mn and Zn (in 3% acetic acid, 10% ethanol, 50% ethanol, 95% ethanol, 40°C, 10 days) and primary aromatic amines PAA (in 3% acetic acid, 40°C, 10 days) meet requirements given by EU Directive 10/2011/EC.

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.

There are no SMLs specified by the regulations for the components (monomers/additives) of this resin.

Dual Use Additives: This product contains dual use additives/food additives. The information provided concerning additives which are also food additives and flavouring is based on our current knowledge.

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

Please note it is the responsibility of both manufacturers of final products as well as the industrial food packers to make sure that these articles in their actual use are in compliance with requirements given by above mentioned regulations.

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

Above mentioned polymer meets the requirements of Regulations (EC) No 1935/2004 and 2023/2006 of the European Parliament and of the Council on 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, ISO 14001 and OHSAS 18001.

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.

US FOOD AND DRUG ADMINISTRATION (FDA)

This product meets requirements given by FDA (Food and Drug Administration) Title 21 CFR (Code of Federal Regulations) § 177.1520: Indirect food additives: Polymers: Olefin polymers; (a) (3) (i) Olefin basic copolymers, (c) Specifications 1.1.a and 1.1.b.

BfR (BUNDESINSTITUT FÜR RISIKOBEWERTUNG), VII. POLYPROPYLENE

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

REGULATION (EC) No. 1272/2008 OF (OF 16 DECEMBER 2008) ON CLASSIFICATION, LABELING 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 CLP 1272/2008/EC and Legal Act of the National Council of SR No. 67/2010 Coll. of Law.

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 94/62/EC (OF 20 DECEMBER 1994) ON PACKAGING AND PACKAGING WASTE AND ITS AMENDMENTS 2005/20/EC AND 2013/2/EU

Heavy metals (like cadmium, lead, mercury, hexavalent chromium (Cr(VI))) and their compounds are not used in manufacturing, and therefore are not expected to be present in this 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, item 1 of EU-Directive 94/62/EC. This product

meets requirements of less than 100 ppm for total incidental cadmium, chromium, lead and mercury. In addition, this product has the potential to be recycled according to these requirements.

REGULATION (EC) NO 850/2004 (OF 29 APRIL 2004) ON PERSISTENT ORGANIC POLLUTANTS AND AMENDING DIRECTIVE 79/117/EEC

We declare that during production of this product, we do not intentionally add 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 presence of these chemical substances.

DIRECTIVE 2011/65/EU (OF 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 (Cr(VI)) and their compounds, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE) restricted by Annex II of this regulation are not incorporated into this polymer intentionally during the production. However, this product has not been tested for presence of these chemical substances.

DIRECTIVE 2000/53/EC (OF 18 SEPTEMBER 2000) ON END-OF-LIFE VEHICLES (ELV)

Heavy metals like cadmium, lead, mercury, hexavalent chromium (Cr(VI)) and their compounds restricted by this regulation are not incorporated into this polymer intentionally during production. However, this product has not been tested for presence of these chemical substances.

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

BADGE, BFDGE and 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:

- 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'

DIRECTIVE 2009/48/EC (OF 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 add into this product, any of the chemicals as restricted by 2009/48/EC ANNEX II. Part III. Chemical properties, Tables No.11 and No.13. According to this fact it is not reasonable to expect any of such substances to be present in this product.

This product complies with the requirements in CEN Standard EN 71-3. 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 presence of 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.

GADSL (GLOBAL AUTOMOTIVE DECLARABLE SUBSTANCE LIST)

We confirm that during the production of this product we do not intentionally add into this polymer any of the chemicals as mentioned in Global Automotive Declarable Substance List (2013 GADSL Version 1.0, <http://www.gadsl.org/>). However, this product has not been tested for presence of these chemical substances.

NANOTECHNOLOGY

We certify that during manufacturing of this product, we do not use Nanotechnology or any nanomaterials according to COMMISSION RECOMMENDATION 2011/696/EU (of 18 October 2011) ON THE DEFINITION OF NANOMATERIAL.

GMO (GENETICALLY MODIFIED SUBSTANCES)

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

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 presence of these chemical elements.

- **Antimony (Sb)**
- **Arsenic (As)**
- **Gold (Au)**
- **Halogens (fluorine, bromine, iodine)**
- **Nickel (Ni)**
- **Phosphorus (P) yellow and red**
- **Selenium (Se)**
- **Sulphur (S)**

- Tantalum (Ta)
- Tin (Sn)
- Tungsten (W)
- Uranium (U)

This product may contain chlorine compounds as catalyst residues in negligible quantities (< 50ppm).

DECLARATION OF OTHER SUBSTANCES

We confirm that during manufacturing of this product, we do not intentionally add into product any of the chemicals listed below and therefore are not expected to be present in this product. However, this product has not been tested for presence of below mentioned substances.

- Acetyl Acetone (ACAC) [CAS No: 123-54-6]
- Acrylamide [CAS No : 79-06-1]
- Aromatic Amines (restricted by Directive 2002/61/EC)
- 4-Aminobiphenyl [CAS No. 92-67-1] and its salts
- Amonium Nitrate [CAS No: 6484-52-2]
- Anthracene [CAS No: 120-12-7]
- Anthraquinone [CAS No: 84-65-1]
- 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 phenol Ethoxylates (APE)
- Azocolorants (restricted by Directive 2002/61/EC)
- Azodicarbonamide [CAS No: 123 -77-3]
- Benzene [CAS No: 71-43-2]
- Benzidine [CAS No: 92-87-15] and its salts
- Benzo[a]pyren (BaP) [CAS No. 50-32-8]
- Benzoic Acid [CAS No: 65-85-0]
- Benzotriazole [CAS No.: 95-14-7]
- Benzophenone [CAS No: 119-61-9]
- Beryllium compounds (including: beryllium-oxide) and beryllium alloy
- Biocides
- Bisphenol A (BPA) [CAS No: 80-05-7], Bisphenol S [CAS No: 80-09-1] and Bisphenol F (BPF) [CAS No: 620-92-8], Bisphenol B (BPB) [CAS No: 77-40-7]
- Bis(chloromethyl)ether (BCME) [CAS No: 542-88-1]
- Bis(2-butoxyethyl) adipate [CAS No: 141-18-4]
- Blue colorants

- Butylated Hydroxytoluene (BHT) [CAS No: 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No: 25013-16-5]
- Camphor benzalkonium methosulfate [CAS No: 52793-97-2]
- Cellulose Acetate [CAS No: 9004-35-7]
- Chrysene [CAS No: 218-01-9]
- Cobalt-dicloride [CAS No: 7646-79-9]
- 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]
- Dioxin [CAS No: 290-67-5] and its derivatives
- Epichlorohydrin [CAS No: 106-89-8]
- Epoxidised Soy-Bean Oil (ESBO)
- Ethylenediaminetetraacetic acid (EDTA) [CAS No: 60-00-4]
- Ethyl-acetone (methyl-propyl-ketone) [CAS No: 107-87-9]
- Ethylene glycol dimethylacrylate (EGDMA) [CAS No: 97-90-5]
- Flame retardants
- Fluoroelastomers
- Furan [CAS No: 110-00-9]
- 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]
- Flame retardants
- Formaldehyde [CAS No: 50-00-0]
- Furan [CAS No: 110-00-09] and its derivatives
- Insecticides
- Isopropyl thioxanthone (ITX) [CAS No: 83846-86-0, 5495-84-1 and 75081-21-9]
- Latex
- Lithium Hydroxide (LiOH) [CAS No: 1310-65-2]
- Melamine [CAS No: 108-78-1]
- Methylene-Diphenyl-Diisocyanate (MDI) [CAS No: 101-68-8]
- 4-Methylbenzophenone [CAS No: 134-84-9]

- N-Ethyl-p-toluenesulfonamide [CAS No: 80-39-7]
- N-Ethyl-o-toluenesulfonamide (NETSA) [CAS No: 1077-66-1]
- N-Methylpyrrolidone (NMP) [CAS No: 872-50-4]
- Nanomaterials (including Nanoclay, Nanosilver)
- Naphthalene [CAS No. 91-20-3]
- 2-Naphthylamine [CAS No. 91-59-8] and its salts
- Nitrite derivatives
- 4-Nitrobiphenyl [CAS No: 92-93-3]
- Nonylphenoethoxylate
- 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]
- Oxalic Acid [CAS No: 144-62-7] and its derivatives
- Palm oil, Coconut Oil and Palm Kernel Oil
- Parabenes (Esters of Para-hydroxybenzoic-acid)
- Phthalates : DEHP, DBP, BBP, DINP, DIDP, DEP, DCHP, DMEP, DMCHP, Di-benzyl phthalate,
- Pentachlorophenol [CAS No: 87-86-5]
- PentaBDE (pentabromodiphenyl ether) and octaBDE(octabromodiphenyl ether)
- Perfluorooctanoic acid (PFOA) [CAS No: 68141-02-6]
- Perfluorooctanesulfonic acid (PFOS) [CAS No: 1763-23-1]
- Pesticides
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Terphenyls (PCTs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polytetrafluorethylene (PTFE, TEFLON) [CAS No: 9002-84-0]
- Proteins
- PVC [CAS No: 9002-86-2] and PVDC [CAS No: 9002-85-1]
- Rosin from wood [CAS No: 8050-09-7]
- Rubber (Synthetic and Natural)
- Silicone [CAS No: 90337-93-2] and silica gel [CAS No: 99439-28-2]
- Softeners
- Styrene [CAS No: 100-42-5]

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- Tetraethyleneglycol dimethacrylate (TEGDMA) [CAS No:109-16-0]
- TBT (tributyl-tin), DBT (dibutyl-tin) and MBT (monobutyl-tin) and dioctyltin compounds (DOT) and other organo-tin compounds
- Titanium acetyl acetonate (TAA) [CAS No: 17501-79-0]
- Triclosan [CAS No: 3380-34-5]
- Trichlorobenzene [CAS No: 12002-48-1]
- Tris(2-butoxyethyl) phosphate (TBEP) [CAS No: 78-51-3]
- Tris(2-nonylphenyl) phosphite [CAS No: 26523-78-4]
- Toluene [CAS No: 108-88-3]
- Vinyl Chloride [CAS No: 75-01-4]

DISCLAIMER

The information provided in this publication has been compiled to the best of our present knowledge as of the date of publication however SLOVNAFT Plc., as supplier of this product does not assume any liability whatever for the accuracy and completeness of such information.

It is the responsibility of those to whom we supply this product to inspect and test our products in order to satisfy itself as to the suitability of this product for particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of this product.

This product is under continuous development, therefore we reserve the right to change the information presented in this publication at our own discretion. It is the responsibility of those to whom we supply this product to check and to download the newest Declaration Data Sheet on www.slovnaft.sk website.

This Declaration Data Sheet has been generated from the data of our quality database and does not require a signature. If you need a copy of signed Declaration Data Sheet please contact our Technical Service E-mail: polymerservice@slovnaft.sk / Tel: + 421 2 5859 7250, + 421 2 5859 7257).

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