DECLARATION DATA SHEET

LOW DENSITY POLYETHYLENE BRALEN+ FB 08-12

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

EUROPEAN UNION FOOD CONTACT STATUS

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 and as amended, applicable to intermediate materials (e.g. plastic granules, plastic flakes).

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

COMMISSION REGULATION (EU) NO 10/2011 (OF 14 JANUARY 2011) ON PLASTIC MATERIALS AND ARTICLES INTENDED TO COME INTO CONTACT WITH FOOD and as amended and corrected, applicable to intermediate materials (e.g. plastic granules, plastic flakes).

The monomers and additives used to produce this product are listed in the Union List of Authorizes substances of Regulation 10/2011/EC and subsequent amendments.

We draw your attention to the fact that the EU-Directive 10/2011/EC, which applies to all EU-Member States, includes a limit of 10 mg/dm^2 on the overall migration (OML) from finished food contact material or article. The OML and specific migration limites (SMLs, if applicable) should be determined according to the requirements specified in Regulation 10/2011/EC and subsequent amendments. Determination of OML and SML is the responsibility of the manufacturer of the finished plastic food contact material or article. In addition, we remind you that the manufacturers of the finished food contact material or article must verify that the finished material or article, manufactured according to good manufacturing practices, does not modify the organoleptic properties of the food.

Based on migration experiments with test samples (blown film, 0.05 mm thickness) made of this polymer and carried out in the presence of the standard food simulants A (10% ethanol), B (3% acetic acid) and D2 (olive oil) at 40°C during 10 days, it is our experience that under these conditions overall migration limits do not exceed 10 mg/dm^2.

Based on migration experiments with test samples made of this polymer we confirm that specific migration limits of Ba, Co, Cu, Fe, Li, Mn, Al and Zn in simulants A, B, D1 and 95% ethanol, at 40°C / 10 days and primary aromatic amines PAA in food simulant B at 40°C / 10 days meet requirements given by EU Regulation 10/2011/EC.

According to Regulation (EU) 2017/752 of 28 April 2017 amending and correcting Regulation (EU) 10/2011 the specific migration limit of nickel (Ni) was added as a new element to Annex II. Specific migration limit of Ni according to Annex II point 1 shall apply from 19th May 2019. Migration of Ni was not tested yet.

This product does not contain monomers, additives or components which have SMLs or QMAs as specified by Regulation 10/2011/EC.
Dual use additives are not intentionally used for production of this product.

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 requirements given by above mentioned regulations.

US FOOD CONTACT FDA (FOOD AND DRUG ADMINISTRATION)

The base resin meets requirements given by FDA Title 21 CFR (Code of Federal Regulations) § 177.1520 Indirect food additives: Polymers: Olefin polymers (a)(2)(i) and (c) Specifications:
2.1. Polyethylene for use in articles that contact food except for articles used for packing or holding food during cooking
2.2. Polyethylene for use in articles used for packing or holding food during cooking

BfR (Bundesinstitut für Risikobewertung), III. Polyethylene

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

EUROPEAN PHARMACOPOEIA (EP), 9TH EDITION

This product meets the EP requirements for 3.1.3 Polyolefines and 3.1.4 Polyethylene without additives for containers for parenteral preparations and for ophthalmic preparations - 9th Edition of European Pharmacopoeia.

DIRECTIVE 2000/53/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (OF 18 SEPTEMBER 2000) ON END-OF LIFE OF VEHICLES

Heavy metals like cadmium (Cd), lead (Pb), mercury (Hg), hexavalent chromium (Cr^{VI}) and their compounds restricted by Directive 2000/53/EC are not intentionally incorporated into this polymer during production.

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 Regulation 1272/2008/EC and Legal Act of the National Council of SR No. 67/2010 Coll. of the Slovak Republic.

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

Based on the available documentation from raw materials suppliers and test results, this grade complies with the Directive 94/62/EC and its following amendments concerning the defined limits of heavy metals.
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 ITS AMENDMENTS: REGULATION (EU) No 2015/2030 (OF 13 NOVEMBER) AND REGULATION (EU) No 2016/460 (OF 30 MARCH 2016)

During the manufacturing of this product we do not intentionally add substances mentioned in Annex A – C of these regulations. The subject of these regulations is on the chemical compound listed in table below.

Substance	CAS No
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	85535-84-8
Aldrin	309-00-2
Chlordane	57-74-9

Dieldrin	60-57-1
Endrin	72-20-8
Heptachlor	76-44-8
Hexabromodiphenyl ether and heptabromodiphenyl ether	68631-49-2 207122-15-4 446255-22-7 207122-16-5
Decabromodiphenyl ether (c-decaBDE)	1163-19-5
Hexachlorobutadiene (HCBD)	87-68-3
Alpha and beta hexachlorocyclohexane	319-84-6 319-85-7
Pentachlorobenzene (PeCB)	608-93-5
Hexachlorobenzene (HCB)	118-74-1
Mirex	2385-85-5
Toxaphene	8001-35-2
Polychlorinated Biphenyls (PCB)	1336-36-3 and others
Polychlorinated naphthalenes	70776-03-3 and others
DDT (1,1,1-trichloro-2,2-bis(4-chlorophenyl) ethane)	50-29-3
Chlordecone	143-50-0
Pentachlorophenol and its salts and esters	87-86-5 131-52-2 27735-64-4 3772-94-9 1825-21-4
Hexabromobiphenyl	36355-01-8
HCH, including lindane	608-73-1, 58-89-9
Polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/PCDF)	-
Hexabromocyclododecane and its diastereoisomers (alpha-hexabromocyclododecane, beta-hexabromocyclododecane, gamma-hexabromocyclododecane)	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8
Technical endosulfan and its related isomers	959-98-8 33213-65-9
Tetrabromodiphenyl ether and pentabromodiphenyl ether (commercial pentabromodiphenyl ether)	5436-43-1 60348-60-9
Perfluorooctane sulfonic acid (PFOS), its salts and perfluorooctane sulfonyl fluoride (PFOS-F)	1763-23-1 307-35-7

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

DIRECTIVE No 2011/65/EC (OF 8 JUNE 2011) ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) AND COMMISSION DELEGATED DIRECTIVE (EU) No 2015/863 (of 31 March 2015) amending Annex II to DIRECTIVE 2011/65/EU

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 Directive 2011/65/EC concerning the limits of heavy metals like cadmium, lead, mercury, hexavalent chromium (Cr^{VI}); polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).
We do not intentionally add substances above the limits stated in COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 (of 31 March 2015) amending Annex II to DIRECTIVE 2011/65/EU (RoHS) of the European Parliament and of the Council as regards the list of restricted substances in electrical and electronic equipment.

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 intentionally added 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 No 2009/48/EC (OF 18 JUNE 2009) ON THE SAFETY OF TOYS AND CEN STANDARDS EN 71-3 AND EN 71-9

CEN EN Standards refer to safety of toys and not specifically to plastic raw materials. According to the information provided by our raw material suppliers, we deem this grade should comply with the requirements of CEN Standards EN 71-3 and EN 71-9 as amended as applicable to plastic raw materials (pellets, flakes, granules).
This grade was tested according to EN 71-3 and meets 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 10/2011 of 18th June 2009 on the safety of toys.
However, this product has not been tested according to standard EN 71-9.

REGULATION (EC) No 1005/2009 (OF 16 SEPTEMBER 2009) ON SUBSTANCES THAT DEPLETE THE OZONE LAYER

The ozone depleting substances (ODS) listed in the Annex I and Annex II of the Regulation (EC) No 1005/2009 are not intentionally used in the manufacture or formulation of this product. However this product has not been tested for presence of above mentioned substances.

ALLERGEN STATEMENT - REGULATION (EU) No 1169/2011 (OF 25 OCTOBER 2011) ON THE PROVISION OF FOOD INFORMATION TO CONSUMERS

The food ingredients, substances or products causing allergies or intolerances listed in Annex II of Regulation (EU) No 1169/2011 are not intentionally added in the manufacture of or the formulation of this product. However, this product has not been tested for presence of the above mentioned substances, food ingredients.

TALLOW AND ITS DERIVATES (BSE/TSE), ANIMAL BASED MATERIALS

Tallow derived components and components based on animal origin are not used in the manufacture of or the formulation of this product.

GMO (GENETICALLY MODIFIED SUBSTANCES)

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

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 (Version 1.0, Revised on 1.2.2017, http://www.gadsl.org/). However, this product has not been tested for presence of these chemical substances.

NANOMATERIALS AND NANOTECHNOLOGY

We certify that during manufacturing of this product, we do not use Nanotechnology or any nanomaterials defined in COMISSION 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 of or the formulation of this grade. However, this product has not been tested for presence of these chemical substances.

PHTHALATES

Phthalates are not used in the manufacture of or formulation of this product. However, this product has not been tested for presence of phthalates.

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.

KOSHER AND HALAL CERTIFICATION

This product is not Kosher- and Halal-certified.

CEN STANDARD EN 13432

This product is not suitable for composting.

DECLARATION OF OTHER CHEMICAL ELEMENTS

As a producer of this product we confirm that during production of this product we do not intentionally 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)
- 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).

OTHER CHEMICAL ELEMENTS AND SUBSTANCES

Chemical elements and substances listed below are not used and not intentionally added during manufacturing or in the formulation of this product and therefore they are not expected to be present in this product. However, this product has not been tested for presence of below mentioned elements and substances.

- Acrolein (2-propenal) [CAS No: 107-02-8]
- Acrylamide [CAS No : 79-06-1]
- Alkylphenols
- Alkyphenolphosphates
- Aromatic Amines (restricted by Directive 2002/61/EC)
- 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]
- Azocolorants, azodyes
- 2-(2H-benzotriazol-2-yl)-4,6-di-tert-butylphenol [CAS No: 3846-71-7]
- Benzophenone [CAS No: 119-61-9]
- Bisphenol A (BPA) [CAS No: 80-05-7]
- Bisphenol A diglycidyl ether (BADGE) [CAS No: 1675-54-3]
- Bisphenol F diglycidyl ether (BFDGE) [CAS No: 2095-03-6]
- Butylated Hydroxytoluene (BHT) [CAS No: 128-37-0]
- Butylated Hydroxyanisole (BHA) [CAS No: 25013-16-5 and 121-00-6]
- Chlorinated paraffins, short chain chlorinated paraffins (SCCPs)
- Cyanuric acid (CYA) [CAS No: 108-80-5]
- Dimethylfumarate [CAS No: 624-49-7]
- Dioxin [CAS No: 290-67-5] and its derivatives
- Epichlorohydrin (ECH) [CAS No: 106-89-8]
- Fluorocarbons
- Fluoroelastomers
- Fluorotelomers

- Formaldehyde [CAS No: 50-00-0]
  Note: Formaldehde in specific conditions could be formed during the resin processing
- Halogenated Flame Retardants
- Gold (Au) [CAS No:7440-57-5]
- Melamine [CAS No: 108-78-1]
- 2-mercaptobenzothiazole (MBT) [CAS No: 149-30-4]
- Nonylphenol [CAS No: 25154-52-3 and 84852-15-3]
- Nonylphenol ethoxylates
- Novolac glycidyl ether
- Organotin compounds
- Perfluorochemicals (PFCs)
- Perfluorooctannoic acid (PFOA) [CAS No: 68141-02-6]
- Perfluorooctanesulfonic acid (PFOS) [CAS No: 1763-23-1]
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Terphenyls (PCTs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polychlorinated Naphthalenes (PCNs)
- Polycyclic aromatic hydrocarbons (PAHs):
  Acenaphthylene [CAS No: 208-96-8]
  Anthracene[CAS No: 120-12-7]
  Benz(a)anthracene [CAS No: 56-55-3]
  Benzo(a)pyrene [CAS No: 50-32-8]
  Benzo(b)fluoranthene [CAS No: 205-99-2]
  Benzo(e)pyrene [CAS No: 192-97-2]
  Benzo(ghi)perylene [CAS No: 191-24-2]
  Benzo(j)fluoranthene [CAS No: 205-82-3]
  Benzo(k)fluoranthene [CAS No: 207-08-9]
  Chrysene [CAS No: 218-01-9]
  Dibenz(a,h)anthracene [CAS No: 53-70-3]
  1,2-dihydro-acenaphthene [CAS No: 83-32-9]
  Fluoranthene [CAS No: 206-44-0]

9H-Fluorene [CAS No: 86-73-7]
Indeno(1,2,3-cd)pyrene [CAS No: 193-39-5]
Naphthalene [CAS No: 91-20-3]
Phenanthrene [CAS No: 85-01-8]
Pyrene [CAS No: 129-00-0]

- Polystyrene resin
- Polyvinyl chloride (PVC) [CAS No : 9002-86-2]
- Polyvinylidene chloride (PVDC) [CAS No: 9002-85-1]
- Radioactive substances
- Radon (Rn) [CAS No: 10043-92-2]
- Styrene [CAS No: 100-42-5]
- Sulphur dioxide [CAS No: 7466-09-5]
- Tin oxide, Cassiterite [CAS No: 8062-08-6]
- Triclosan [CAS No: 3380-34-5]
- Tris(2-nonylphenyl) phosphite (TNPP) [CAS No: 26523-78-4]
- Vinyl Chloride [CAS No: 75-01-4]
- Wolframite, Tungsten (W) [CAS No: 1332-08-7]

DISCLAIMER

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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.

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