TIPELIN BS 501-17 HDPE for Blow moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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DESCRIPTION

TIPELIN BS 501-17 is a high density polyethylene copolymer (with hexen-1 as comonomer) grade for blow moulding of products which require excellent ESCR and chemical resistance, furthermore balanced mechanical properties. The grade contains antioxidants.

APPLICATIONS

TIPELIN BS 501-17 is recommended for bottles and cans up to 10 litre capacity for aggressive household chemicals and detergents. It is suitable for corrugated pipes too.

TIPELIN BS 501-17 is suitable for food contact, for manufacturing of pharmaceutical packing products and toys. The product complies with Food Contact, Pharmaceutical and Toy Safety Regulations.

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133-1	g/10 min	0.18
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	ISO 1133-1	g/10 min	0.94
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	22
Density (23 °C) *	ISO 1183-2	kg/m³	950
Tensile Strength at Yield *	ISO 527-3	MPa	27
Tensile Strength at Break *	ISO 527-3	MPa	28
Tensile Strain at Break *	ISO 527-3	%	1100
Flexural modulus*	ISO 178	MPa	1350
Izod Impact Strength (notched, 23 °C)*	ISO 180/A	kJ/m ²	14
Vicat Softening Temperature *	ISO 306/A 120	°C	129
Shore D Hardness *	ISO 868	-	64
ESCR F50 B (100% Igepal CO-630)*	ASTM D 1693	h	100
OIT (200 °C)	EN 728	min	8

Typical properties, not to be used as specification.

PROCESSING

TIPELIN BS 501-17 can be used in conventional extrusion machines.

Recommended processing temperatures are 180-220°C.

STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. We use adhesive between the bags







^{*} Average mechanical property values of several measurements carried out on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

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in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The prefered method is to lift the bag at first without rotation. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals sales representative.

Since polyethylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polyethylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

REACH STATEMENT

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time TIPELIN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

SAFETY

See MSDS

RECYCLING

POLYPROPYLENE resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

DISCLAIMER

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MANUFACTURER

MOL Petrochemicals Co. Ltd. H-3581 Tiszaújváros, P.O. Box: 20 Hungary

TECHNICAL SERVICE

MOL Plc.
Polymer Technical Service MOL
H-3581 Tiszaújváros,
P.O. Box: 20
Hungary

Telephone: +36 49 521 540 +36 80 204 248 Fax: +36 49 886 491 E-mail: pts@mol.hu

SALES ORGANIZATION

GERMANY

Im Trutz Frankfurt 49, D-60322 Frankfurt am Main, Germany Telephone: +49 69 154 04 0

Fax: +49 69 154 04 41

E-mail: polymersales@molgermany.de

ITALY

Via Montefeltro, 4 20156 Milano, Italy

Telephone: +39 02 58 30 5523

Fax: +39 02 58 30 3492

E-mail: tvk.info@molgroupitaly.it

POLAND

Ul. Postępu 17D 02-676 Warszawa, Poland Telephone: +48 22 545 70 70

Fax: +48 22 545 70 60

E-mail: petchem@slovnaft.pl

AUSTRIA

Walcherstrasse 11A, 7.Stock A- 1020 Wien, Austria Telephone: +43 1 211 20 1120

Fax: +43 1 211 20 1198

E-mail: JHauk@molaustria.at

FRANCE

Paris, France

Mobile Phone: + 33 7 89 86 10 64 Telephone: + 33 1 64 32 44 17

E-mail: iren.husson@molgroupitaly.it

ROMANIA

Str. Danielopolu 4-6 ET1 Sector 1 Cod 014 134 Bucuresti, Romania Telephone: +40 21 204 85 00

+40 21 204 85 02

Fax: +40 21 232 10 59

E-mail: petchem@molromania.ro







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HUNGARY

H-3581 Tiszaújváros,

P.O. Box: 20 Hungary

Telephone: +36 49 531 928

Fax: +36 1 8877 647

E-mail: polymersales@mol.hu

UKRAINE

04073 Kiev

Stepana Bandery ave., 23, 7th floor, of. 305,

Ukraine

Telephone:

+380 44 374 00 80

+380 67 463 58 69

Fax: +380 44 374 00 90

E-mail: JZavojko@mol-ukraine.com.ua

OTHER EUROPEAN COUNTRIES

Telephone:

+36 20-506-6572

+36 70 373 9209

Fax: +36 1 8877 647

E-mail: polymersales@mol.hu

SLOVAKIA AND CZECH REPUBLIC

Vlčie hrdlo 1

824 12 Bratislava, Slovak Republic

Telephone:

+ 421 2 5859 7515

+ 421 2 5859 7622

+ 421 2 5859 7741

+ 421 2 5859 7231

E-mail: polymersales@slovnaft.sk

CROATIA, SLOVENIA, SERBIA, MONTENEGRO, BOSNIA AND HERZEGOVINA, FYR MACEDONIA, ALBANIA, KOSOVO

Zadarska 80 HR-10000 Zagreb, Croatia

Telephone: +385 1 6160 600

Fax: +385 1 6160 601

E-mail: polymersales@tifon.hr

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