

TECHNICAL DATA SHEET

TIPELIN BA 550-13

HDPE for Blow moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

TIPELIN BA 550-13 is a high density polyethylene copolymer (with hexen-1 as comonomer) grade for blow moulding of products which require good chemical resistance, furthermore high rigidity. The grade contains antioxidant and acid scavenger.

APPLICATIONS

TIPELIN BA 550-13 is recommended for bottles and cans up to 30 litre capacity for non-aggressive household chemicals, cosmetics and oils. The product is suitable for non-pressure pipes and corrugated pipes too.

TIPELIN BA 550-13 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	0.35
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	ISO 1133-1	g/10 min	1.5
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	28
Density (23 °C) *	ISO 1183-2	kg/m ³	954
Tensile Strength at Yield *	ISO 527-3	MPa	29
Tensile Strain at Yield *	ISO 527-3	%	12
Tensile Strain at Break *	ISO 527-3	%	1200
Flexural modulus*	ISO 178	MPa	1500
Izod Impact Strength (notched, 23 °C)*	ISO 180/A	kJ/m ²	15
Vicat Softening Temperature *	ISO 306/A 120	°C	129
Shore D Hardness *	ISO 868	-	66
ESCR F50 B (10% Igepal CO-630)*	ASTM D 1693	h	45
OIT (200 °C) *	EN 728	min	10

Typical properties, not to be used as specification.

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

PROCESSING

TIPELIN BA 550-13 can be used in conventional extrusion machines.

Recommended processing temperatures are 180-220°C.

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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 in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred 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

Polyethylene 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 49 522 607

Fax: +36 49 886 491

[E-mail: pts@mol.hu](mailto: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

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

ITALY

Via Montefeltro, 4

20156 Milano, Italy

Telephone: +39 02 58 30 5523

Fax: +39 02 58 30 3492

E-mail: tvkitaly@it.tvk.eu

FRANCE

Paris, France

Mobile Phone: + 33 7 89 86 10 64

Telephone: + 33 1 64 32 44 17

E-mail: husson.iren@fr.tvk.eu

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

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 49 521 355
Fax: +36 49 886 491
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 49 521 355
+36 70 458 4563
+36 70 373 9209
Fax: + 36 49 886 491
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, BOSNIA AND HERZEGOVINA, FYR MONTENEGRO, 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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