# 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/m³	954
Tensile Strength at Yield *	ISO 527-3	MPa	29
Tensile Strain at Yield *	ISO 527-3	%	11
Tensile Strain at Break *	ISO 527-3	%	1150
Flexural modulus*	ISO 178	MPa	1500
Izod Impact Strength (notched, 23 °C)*	ISO 180/A	kJ/m²	14
Vicat Softening Temperature *	ISO 306/A 120	°C	127
Shore D Hardness *	ISO 868	-	65
ESCR F50 B (100% Igepal CO-630)*	ASTM D 1693	h	40
OIT (200 °C) *	EN 728	min	11

Typical properties, not to be used as specification.

## **PROCESSING**

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

Recommended processing temperatures are 180-220°C.







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

# 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

2

## 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 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**

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

## **DISCLAIMER**

©2018 MOL Group. To the extent the user is entitled to disclose and distribute this document, the user may forward, distribute, and/or photocopy this copyrighted document only if unaltered and complete, including all of its headers, footers, disclaimers, and other information. You may not copy this document to a web site. MOL Group does not guarantee the typical (or other) values. Analysis may be performed on representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, suitability, accuracy, reliability, or completeness of this information or the products, materials, or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage, or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. There is no endorsement of any product or process, and we expressly disclaim any contrary implication. The terms, "we", "our", "MOL", or "MOL Group" are used for convenience, and may include any one or more of MOL Group, or any affiliates they directly or indirectly control. MOL Group, the MOL Group logo, and all other product names used herein are trademarks of MOL Plc. or SLOVNAFT, a.s. unless indicated otherwise.







# 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

## **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







# 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

4

### **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

April, 2019



