

TECHNICAL DATA SHEET

POLYETHYLENE TIPELIN 1108J

HDPE for injection moulding

Preliminary

(Lot number: 530227)

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

DESCRIPTION

TIPELIN 1108J is a UV stabilized high density unimodal polyethylene homopolymer intended for injection moulding of general purpose products. It offers good balance of properties between stiffness and processability. The grade contains UV stabilizer package, antioxidant and acid scavenger.

APPLICATIONS

TIPELIN 1108J is recommended for making daily necessities, kitchen housewares, boxes, crates, trays, toys, caps, cartridges.

TIPELIN 1108J is suitable for food contact, for manufacturing of toys. Qualification for Food Contact and Toy Safety Regulations is under process.

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133	g/10 min	8,4
Density (23 °C) *	ISO 1183-2	kg/m ³	959
Tensile Strength at Yield *	ISO 527-3	MPa	26,7
Tensile Strain at Yield *	ISO 527-3	%	8,1
Tensile Strength at Break *	ISO 527-3	MPa	13,6
Tensile Strain at Break *	ISO 527-3	%	472
Flexural Modulus *	ISO 178	MPa	1270
IZOD Impact Strength (notched, 23 °C) *	ISO 180/ A	kJ/m ²	4,4
IZOD Impact Strength (notched, -20 °C) *	ISO 180/ A	kJ/m ²	3,8
CHARPY Impact Strength (notched, 23 °C) *	ISO 179/ A	kJ/m ²	3,8
CHARPY Impact Strength (notched, -20 °C) *	ISO 179/ A	kJ/m ²	3,9
ESCR F50 B (100% Igepal CO-630) *	ASTM D 1693	h	6
OIT (200 °C) *	EN 728	min	120
Vicat Softening Temperature *	ISO 306/A 120	°C	129
Shore D Hardness *	ISO 868	-	61

* Typical properties, not to be used as specification. Average mechanical property values of several measurements carried out on standard injection-moulded test specimens prepared in accordance with ISO 1872-2.

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

PROCESSING

TIPELIN 1108J can be used in conventional injection machines. Recommended processing temperatures are 210-270 °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 1250 or 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 palettes. 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 TVK 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. TVK Plc. is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time HDPE 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

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polyethylene resins and the equipment used, the processing conditions may differ.

The recommendations and data herein are to be construed as informational only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

TECHNICAL DATA SHEET

POLYETHYLENE TIPELIN 1108J

HDPE for injection moulding

Preliminary

(Lot number: 530227)

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

MANUFACTURER

TVK Plc.

H-3581 Tiszaújváros,

P.O. Box: 20

Hungary

Internet: www.tvk.hu

E-mail: tvkinfo@tvk.hu

TECHNICAL SERVICE

TVK Plc.

Polymers Marketing and Sales

Polymer Technical Service

Telephone: +36 49 522 607; +36 80 204 249

+36 49 521 540; +36 80 204 248

Fax: +36 49 886 491

E-mail: customerservice@tvk.hu

SALES ORGANIZATION

SLOVNAFT, a.s.

Polymer Sales

Vlčie hrdlo 1

824 12 Bratislava

Slovak Republic

Telephone: + 421 2 5859 7515

+ 421 2 5859 7741

+ 421 2 5859 7231

E-mail: polymersales@slovnaft.sk

TVK Plc.

H-3581 Tiszaújváros,

P.O. Box: 20

Hungary

Telephone: +36 49 521 355

Fax: +36 49 886 491

E-mail: polymersales@tvk.hu

MOL Germany GmbH.

Fellnerstrasse 7-9.

D-60322 Frankfurt am Main

Germany

Telephone: +49 69 154 04 0

Fax: +49 69 154 04 41

E-mail: polymersales@molgermany.de

MOL- Austria Handels GmbH.

Walcherstrasse 11A, 7. Stock

A-1020 Wien

Austria

Telephone: +43 1 211 20 1120

+43 1 211 20 1121

Fax: +43 1 211 20 1198

E-mail: JHauk@molaustria.at

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

TVK Italia S.r.l.

Via Teulié, 1
20136 Milano
Italy

Telephone: +39 02 58 30 5523
Fax: +39 02 58 30 3492
E-mail: tvkitaly@it.tvk.eu

TVK France

182 avenue Charles de Gaulle
F-92200 Neuilly-sur-Seine
France

Telephone: +33 (0)1 47 45 63 60
Fax: +33 (0)1 47 45 45 10
E-mail: tvkfrance@fr.tvk.eu

MOL Ukraine LLC

04655 Kiev
Moskovskiy ave, 23, 7th floor
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

SLOVNAFT Polska S.A.

PetChem Department
ul. Wąwozowa 23/12
PL 02-796 Warszawa
Poland

Telephone: +48 22 545 70 70
Fax: +48 22 545 70 60
E-mail: petchem@slovnaft.pl

Other European Countries

Telephone: +36 49 521 355
+421 2 5859 7682
+421 2 5859 7516
Fax: +36 49 886 491
E-mail: polymersales@tvk.hu
polymersales@slovnaft.sk

SC. MOL Romania P.P. SRL

Str. Danielopolu 4-6
ET2 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