

TECHNICAL DATASHEET

POLYETHYLENE TIPELIN 1100J

HDPE for injection moulding

DESCRIPTION

TIPELIN 1100J is a high density unimodal polyethylene copolymer (with propene-1 as comonomer) intended for injection moulding of general purpose products. It offers good balance of properties between stiffness and processability. The grade contains antioxidant and acid scavenger.

APPLICATIONS

TIPELIN 1100J is recommended for making daily necessities, kitchen housewares, boxes, crates, trays, toys, caps, cartridges.

Applications listed here are only a recommendation, not a guarantee. User is obliged to carry out own tests to assess suitability of the polymer for the intended application. This also includes the test of final articles necessary to assess compliance with relevant regulations, e.g. food contact. For more product safety related information, please see the DDS.

PRODUCT COMPLIANCE

See DDS.

PROPERTIES*

Parameter	Note	Test method	Unit	Typical value
MFR - Melt Mass-Flow Rate (190°C, 2.16 kg)	-	ISO 1133-1	g/10 min	8
Density (23°C)	3	ISO 1183-2	kg/m ³	961
Tensile Stress at Yield	13	ISO 527-1,2	MPa	28
Tensile Strain at Yield	13	ISO 527-1,3	%	11
Tensile Stress at Break	13	ISO 527-1,3	MPa	11
Tensile Strain at Break	13	ISO 527-1,2	%	800
Flexural Modulus	13	ISO 178	MPa	1400
Izod Impact Strength (notched, 23°C)	13	ISO 180/A	kJ/m ²	4.5
Hardness - Shore D	13	ISO 868	-	63
Vicat Softening Temperature	13	ISO 306/A 120	°C	128
ESCR F50 B (100% Igepal CO-630)	3	ASTM D1693	h	> 3
OIT - Oxidation Induction Time (200°C)	-	EN 728	min	35
Recommended Processing Temperature	-	-	°C	210 - 250

*Typical properties, not to be used as specification.

(3) Values has been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

(13) Average mechanical property values of several measurements carried out on standard injection moulded specimens (ISO 294-1) conditioned at room temperature (ISO 291).

PROCESSING

TIPELIN 1100J can be used in conventional injection moulding machines.

 **MOLGROUP**
CHEMICALS



Last revision: November/2024

 PETROCHEMICALS MEMBER OF MOL GROUP	QUALITY CERTIFICATE
MOL Petrochemicals Co. Ltd. H-3581 Tiszaújváros, TVK Ipartelep. TVK Központi Irodaház 2119/3 hrsz. 136. ép. HUNGARY TAX No.: 10725759-4-05 EU TAX ID No.: HU17781774 Tribunal of Miskolc as Court of Registration: 05-10-000065	Product: TIPELIN 1100J Product by Customer: Lot: 2430623 Date of approval: 21.08.2024 Order no.: 401317570 Delivery note number: 76413731 Date of dispatch: 08.10.2024 Delivered quantity: 2,750 TO

Property	Unit	Method	Specification	Result
MFR (190°C/2,16 kg)	g /10 min	ISO 1133-1	6.80 - 9.20	7.46
Density	g/cm3	ISO 1183	0.9590 - 0.9630	0.9605

The manufacturing and qualifying process of the product are formed according to ISO 9001.
The polymer was produced in Hungary.
The Certificate of Analysis is made in accordance to standard EN 10204 3.1.

The product manufacturing information:
Stereospecific polymerization
Type of used catalyst: Cr(III) - oxid or Ziegler - Natta
Technology: Phillips or Mitsui

Printed: 08.10.2024

PLASTIC INDUSTRY TESTING LABORATORIES MPC

All the information reported in this document comes from MOL Petrochemicals Co. Ltd. closed databank.
PLASTIC INDUSTRY TESTING LABORATORIES MPC is the only authorised and is fully responsible for data input.
Therefore "PLASTIC INDUSTRY TESTING LABORATORIES MPC" is an electronic signature.



TECHNICAL DATASHEET

POLYETHYLENE TIPELIN 1100J

HDPE for injection moulding

STORAGE AND HANDLING

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. 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. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.

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 HDPE TIPELIN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

RECYCLING

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

SAFETY

See MSDS.

Flammability measurement according to UL 94 (2006): burning rate 22 mm/min, measured on HB specimens (size 125 x 13 x 3 mm).

