

TECHNICAL DATA SHEET

TIPELIN 7700M

HDPE for non-pressure pipe and sheet

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

TIPELIN 7700M is a natural, high density polyethylene copolymer (with butene-1 as comonomer) grade. The product shows excellent mechanical properties and environmental stress crack resistance (ESCR). The grade contains antioxidant and acid scavenger.

APPLICATIONS

TIPELIN 7700M is recommended for non-pressure pipes and sheet manufacturing.

TIPELIN 7700M is suitable for food contact. The product complies with Food Contact Regulations.

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133-1	g/10 min	0.06
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	ISO 1133-1	g/10 min	0.26
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	8.0
Density (23 °C) *	ISO 1183-2	kg/m ³	948
Tensile Strength at Yield *	ISO 527-3	MPa	27
Tensile Strength at Break *	ISO 527-3	MPa	31
Tensile Strain at Yield *	ISO 527-3	%	14
Tensile Strain at Break *	ISO 527-3	%	1550
Flexural modulus*	ISO 178	MPa	1100
Izod Impact Strength (notched, 23 °C)*	ISO 180/A	kJ/m ²	22
Vicat Softening Temperature *	ISO 306/A 120	°C	127
Shore D Hardness *	ISO 868	-	63
ESCR F50 B (10% Igepal CO-630)*	ASTM D 1693	h	> 10 000
OIT (200 °C) *	EN 728	min	>120

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 7700M can be used in conventional extrusion machines.

Recommended processing temperatures are 190-210°C.

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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 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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4

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