

TECHNICAL DATA SHEET

POLYETHYLENE TIPELIN 7111S

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 7111S is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for sheet extrusion and blow moulding of products with high stiffness, excellent environmental stress crack resistance, full notched creep behaviour and improved long-term color stability. The grade contains antioxidants and acid scavengers.

APPLICATIONS

TIPELIN 7111S is recommended for the extrusion of sheets of industrial parts and consumer packaging as well, highly recommended in cases when better colour stability and lower yellowness value of the product is needed. The product is also recommended for non-pressure pipe extrusion and for blow moulding of jerry cans for the packaging even of aggressive industrial.

PRODUCT COMPLIANCE

See DDS.

PROPERTIES

Parameter	Note	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	-	ISO 1133-1	g/10 min	0.12
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	-	ISO 1133-1	g/10 min	0.5
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	-	ISO 1133-1	g/10 min	13
Density (23 °C)	(1)	ISO 1183-2	kg/m ³	949
Tensile Strength at Break	(1)	ISO 527-3	MPa	30
Tensile Strain at Break	(1)	ISO 527-3	%	1490
Tensile Strain at Yield	(1)	ISO 527-3	%	11
Tensile Stress at Yield	(1)	ISO 527-3	MPa	25
Flexural Modulus	(1)	ISO 178	MPa	1250
Izod Impact Strength (notched, 23 °C)	(1)	ISO 180/A	kJ/m ²	16
Vicat Softening Temperature	(1)	ISO 306/A 120	°C	127
Hardness Shore D	(1)	ISO 868	-	63
ESCR F50 B (10% Igepal CO-630)	(1)	ASTM D 1693	h	MIN 10000
OIT (Oxidation induction time) at 200 °C	-	EN 728	min	MIN 120

Typical properties, not to be used as specification.

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

PROCESSING

TIPELIN 7111S can be used in conventional extrusion machines. Recommended processing temperatures are 190-210 °C.

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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. n-house production waste should be kept clean to facilitate direct recycling.

SAFETY

See MSDS.

Flammability measurement according to FMVSS302 (1998): burning rate 18 mm/min, horizontal position, measured on press moulded specimens (size 350 x 100 x 3 mm).

DISCLAIMER

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