

TECHNICAL DATASHEET

POLYETHYLENE TIPELIN BS 502-43

HDPE for Blow moulding

DESCRIPTION

TIPELIN BS 502-43 is a newly developed high density polyethylene copolymer (with hexen-1 as comonomer) grade. This material has been developed especially for support recycling process. Special additivation in product provides excellent thermal and oxidative stability as well as gives an opportunity to increase the ratio of recycled component in the end product. Target application field is blow moulding which require good ESCR and chemical resistance, furthermore balanced mechanical properties.

APPLICATIONS

TIPELIN BS 502-43 is recommended for bottles and cans up to 10 litre capacity for aggressive household chemicals and detergents. It is suitable for corrugated pipes too.

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	0.2
MFR - Melt Mass-Flow Rate (190°C, 5 kg)	-	ISO 1133-1	g/10 min	0.76
MFR - Melt Mass-Flow Rate (190°C, 21.6 kg)	-	ISO 1133-1	g/10 min	19
Density (23°C)	3	ISO 1183-2	kg/m ³	950
Tensile Stress at Yield	3	ISO 527-3	MPa	26
Tensile Strain at Yield	3	ISO 527-3	%	12
Tensile Stress at Break	3	ISO 527-3	MPa	25
Tensile Strain at Break	3	ISO 527-3	%	1300
Flexural Modulus	3	ISO 178	MPa	1250
Izod Impact Strength (notched, 23°C)	3	ISO 180/A	kJ/m ²	14
Hardness - Shore D	3	ISO 868	-	62
Vicat Softening Temperature	3	ISO 306/A 120	°C	129
ESCR F50 B (100% Igepal CO-630)	3	ASTM D1693	h	100
OIT - Oxidation Induction Time (200°C)	-	EN 728	min	90
Recommended Processing Temperature	-	-	°C	180 - 220

*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).

PROCESSING

TIPELIN BS 502-43 can be used in conventional extrusion machines.

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

SAFETY

See MSDS.

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