# TIPELIN BS 501-17 HDPE for Blow moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

## **DESCRIPTION**

**TIPELIN BS 501-17** is a high density polyethylene copolymer (with hexen-1 as comonomer) grade for blow moulding of products which require excellent ESCR and chemical resistance, furthermore balanced mechanical properties. The grade contains antioxidants.

### **APPLICATIONS**

**TIPELIN BS 501-17** is recommended for bottles and cans up to 10 litre capacity for aggressive household chemicals and detergents. It is suitable for corrugated pipes too.

**TIPELIN BS 501-17** is suitable for food contact, for manufacturing of pharmaceutical packing products and toys. The product complies with Food Contact, Pharmaceutical and Toy Safety Regulations.

# **PROPERTIES**

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133-1	g/10 min	0.18
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	ISO 1133-1	g/10 min	0.94
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	22
Density (23 °C) *	ISO 1183-2	kg/m³	950
Tensile Strength at Yield *	ISO 527-3	MPa	26
Tensile Strength at Break *	ISO 527-3	MPa	32
Tensile Strain at Break *	ISO 527-3	%	1250
Flexural modulus*	ISO 178	MPa	1400
Izod Impact Strength (notched, 23 °C)*	ISO 180/A	kJ/m²	15
Vicat Softening Temperature *	ISO 306/A 120	°C	127
Shore D Hardness *	ISO 868	-	64
ESCR F50 B (10% Igepal CO-630)*	ASTM D 1693	h	140
OIT (200 °C) *	EN 728	min	7

Typical properties, not to be used as specification.

## **PROCESSING**

**TIPELIN BS 501-17** can be used in conventional extrusion machines. Recommended processing temperatures are 180-220°C.







<sup>\*</sup> Average mechanical property values of several measurements carried out on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

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### 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 prefered 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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