

# TECHNICAL DATA SHEET

# POLYETHYLENE TIPELIN 6000B

## HDPE for blow moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

### DESCRIPTION

**TIPELIN 6000B** is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for blow moulding of products with high stiffness and very good environmental stress crack resistance (ESCR). The grade contains antioxidant and acid scavenger.

### APPLICATIONS

**TIPELIN 6000B** is recommended for thin walled, small bottles up to 5 litre capacity for consumer goods such as cosmetics, daily care etc. and for blow moulded products for packaging of aggressive industrial chemicals bounded to UN certificates. It is suitable for corrugated pipes too

**TIPELIN 6000B** 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	0.3
Melt Mass-Flow Rate (MFR) (190 °C /5.0 kg)	ISO 1133-1	g/10 min	1.3
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	30
Density (23 °C) *	ISO 1183-2	kg/m <sup>3</sup>	958
Tensile Strength at Yield *	ISO 527-3	MPa	32
Tensile Strain at Yield *	ISO 527-3	%	9
Tensile Strain at Break *	ISO 527-3	%	1000
Flexural Modulus *	ISO 178	MPa	1700
IZOD Impact Strength (notched, 23 °C) *	ISO 180/ A	kJ/m <sup>2</sup>	9
Vicat Softening Temperature *	ISO 306/A 120	°C	127
Shore D Hardness *	ISO 868	-	65
ESCR F50 B (10% Igepal CO-630) *	ASTM D 1693	h	200
OIT (200 °C) *	EN 728	min	30

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 6000B** can be used in conventional extrusion machines. Recommended processing temperatures are 180-220 °C.