TECHNICAL DATA SHEET
POLYETHYLENE TIPELIN 6300B
HDPE for blow moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN
The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

DESCRIPTION

TIPELIN 6300B is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for blow moulding of products with high stiffness and excellent environmental stress crack resistance (ESCR). The grade contains antioxidant and acid scavenger.

APPLICATIONS

TIPELIN 6300B is recommended for bottles and containers up to 10 litre capacity for detergents, household chemicals and for blow moulded products for packaging of aggressive industrial chemicals bounded to UN certificates. It is suitable for corrugated pipes too

TIPELIN 6300B is suitable for food contact and for manufacturing of pharmaceutical packing products. The product complies with Food Contact and Pharmaceutical 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^3	954
Tensile Strength at Yield *	ISO 527-3	MPa	32
Tensile Strain at Yield *	ISO 527-3	%	10
Tensile Strain at Break *	ISO 527-3	%	1005
Flexural Modulus *	ISO 178	MPa	1550
IZOD Impact Strength (notched, 23 °C) *	ISO 180/ A	kJ/m^2	9
Vicat Softening Temperature *	ISO 306/A 120	°C	126
Shore D Hardness *	ISO 868	-	65
ESCR F50 B (10% Igepal CO-630) *	ASTM D 1693	h	665
OIT (200 °C) *	EN 728	min	34

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 6300B can be used in conventional extrusion machines.
Recommended processing temperatures are 180-220 °C.