

TECHNICAL DATA SHEET

POLYETHYLENE TIPELIN FA 381-10

MDPE for blown film

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN

The joint product portfolio of TVK and SLOVNAFT provides infinite opportunities

DESCRIPTION

TIPELIN FA 381-10 is a film grade of medium density polyethylene copolymer (with hexen-1 as comonomer) grade. The product has very good Elmendorf tear strength and Dart drop resistance, low gel content and good vapour barrier capacity. The grade contains antioxidants and acid scavenger.

APPLICATIONS

TIPELIN FA 381-10 is recommended for bags, shopping bags, garbage bags, shrink films, multi-layer films and blend component for LDPE

TIPELIN FA 381-10 is suitable for food contact. The product complies with Food Contact Regulations

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133-1	g/10 min	0.28
Melt Mass-Flow Rate (MFR) (190 °C /5.0 kg)	ISO 1133-1	g/10 min	1.2
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	21
Density (23 °C) *	ISO 1183-2	kg/m ³	937
Tensile Strength at Yield (MD/TD)**	ISO 527-3	MPa	20/17
Tensile Strength at Break (MD/TD)**	ISO 527-3	MPa	47/42
Tensile Strain at Break (MD/TD)**	ISO 527-3	%	710/840
Elmendorf Tear Resistance (MD/TD)**	ISO 6383-2	cN	49/380
Dart Drop (F 50)**	ISO 7756-1 method A	g	95
Flexural Modulus *	ISO 178	MPa	900
Spencer Impact Strength**	ASTM D 3420	MPa	34
Vicat Softening Temperature *	ISO 306/A 120	°C	118
Shore D Hardness *	ISO 868	-	60
OIT (200 °C) *	EN 728	min	69

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).

** Average mechanical property values of several measurements on film (MD = machine direction, TD = trans direction) thickness of 0.025 mm, blow up ratio 4:1.

PROCESSING

TIPELIN FA 381-10 can be used in conventional extrusion machines. Recommended processing temperatures are 180-220 °C.