

TECHNICAL DATA SHEET

TIPELIN 7000F

HDPE for Blown films

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

TIPELIN 7000F is a high density bimodal polyethylene copolymer (with butene-1 as comonomer) intended for blown film of products with excellent mechanical strength and good stiffness. It offers good processability at high speed. The grade contains antioxidant and acid scavenger.

APPLICATIONS

TIPELIN 7000F is recommended for disposal waste bags, grocery bags and ultra-thin films.

TIPELIN 7000F 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	0.08
Melt Mass-Flow Rate (MFR) (190 °C /5 kg)	ISO 1133-1	g/10 min	0.30
Melt Mass-Flow Rate (MFR) (190 °C /21.6 kg)	ISO 1133-1	g/10 min	9.0
Density (23 °C) *	ISO 1183-2	kg/m ³	955
Tensile Strength at Yield (MD/TD)**	ISO 527-3	MPa	38/24
Tensile Strength at Break (MD/TD)**	ISO 527-3	MPa	71/43
Tensile Strain at Break (MD/TD)**	ISO 527-3	%	500/600
Elmendorf Tear Resistance (MD/TD)**	ISO 6383-2	cN	16/155
Dart Drop (F 50)**	ISO 7765-1 method A	g	200
Spencer Impact Strength**	ASTM D 3420	MPa	90
Vicat Softening Temperature *	ISO 306/A 120	°C	126
Shore D Hardness *	ISO 868	-	64
OIT (200 °C) *	EN 728	min	64
Recommended film thickness	-	mm	0.006-0.06

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 0.015 mm, blow up ratio 4:1.

PROCESSING

TIPELIN 7000F can be used in conventional extrusion machines.

Recommended processing temperatures are 180-220°C.

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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 preferred 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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