

TIPELIN® FS 383-03

Medium Density Polyethylene

MOL Petrochemicals Co. Ltd.

Message:

TIPELIN FS 383-03 is a film grade of medium density polyethylene copolymer (with hexene-1 as comonomer) grade. The product has very good Elmendorf tear strength and Dart drop resistance. The grade contains antioxidants and acid scavenger.

Applications

TIPELIN FS 383-03 is recommended for bags, shopping bags, multi-layer films and blend component for LDPE.

TIPELIN FS 383-03 is suitable for food contact and for manufacturing of pharmaceutical packing products. The product complies with Food Contact Regulations.

General Information			
Additive	Acid Neutralizer		
	Antioxidant		
Features	Food Contact Acceptable		
	Hexene Comonomer		
Uses	Bags		
	Blending		
	Film		
	Multilayer Film		
	Packaging		
	Pharmaceutical Packaging		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.18	g/10 min	
190°C/21.6 kg	15	g/10 min	
190°C/5.0 kg	0.87	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (Compression Molded)	900	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	70	µm	
Tensile Stress			ISO 527-3
MD : Yield, 70 µm, Blown Film	24.0	MPa	

TD : Yield, 70 μm, Blown Film	19.0	MPa	
MD : Break, 70 μm, Blown Film	51.0	MPa	
TD : Break, 70 μm, Blown Film	48.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 70 μm, Blown Film	700	%	
TD : Break, 70 μm, Blown Film	800	%	
Dart Drop Impact (70 μm, Blown Film)	100	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD : 70 μm, Blown Film	0.45	N	
TD : 70 μm, Blown Film	3.6	N	
Spencer Impact - Blown Film (70.0 μm)	37.0	MPa	ASTM D3420
Oxidation Induction Time - Compression Molded (200°C)	42	min	EN 728
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ISO 306/A120
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 165	°C	

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