

TIPELIN® FA 381-10

Medium Density Polyethylene

MOL Petrochemicals Co. Ltd.

Message:

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.

General Information	
Additive	Acid Neutralizer
	Antioxidant
Features	Antioxidant
	Food Contact Acceptable
	Good Tear Strength
	Hexene Comonomer
	High Impact Resistance
	Low Gel
	Moisture Barrier
	Recyclable Material
Uses	Bags
	Blending
	Film
	Shrink Wrap
Forms	Pellets
Processing Method	Blown Film
	Extrusion

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	0.28	g/10 min	
190°C/21.6 kg	21	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method

Flexural Modulus	900	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
Tensile Stress			ISO 527-3
MD : Yield, 25 μm, Blown Film	21.0	MPa	
TD : Yield, 25 μm, Blown Film	18.0	MPa	
MD : 25 μm, Blown Film	48.0	MPa	
TD : 25 μm, Blown Film	47.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 μm, Blown Film	700	%	
TD : Break, 25 μm, Blown Film	800	%	
Dart Drop Impact (25 μm, Blown Film)	100	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD : 25 μm, Blown Film	0.49	N	
TD : 25 μm, Blown Film	4.0	N	
Spencer Impact - Blown Film (25.0 μm)	35.0	MPa	ASTM D3420
Oxidation Induction Time (200°C)	32	min	EN 728
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	118	°C	ISO 306/A120
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 220	°C	

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