

TIPELIN® FS 471-02

High Density Polyethylene
MOL Petrochemicals Co. Ltd.

Message:

TIPELIN FS 471-02 is a film grade of high density polyethylene copolymer (with hexene-1 as comonomer) grade. The product has high molecular mass, very good Tear strength and Dart drop resistance, low gel content, good vapour barrier properties. The grade contains antioxidant and acid scavenger.

Applications

TIPELIN FS 471-02 is recommended for extra thin packaging films, bags, shopping bags and garbage bags.

TIPELIN FS 471-02 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 Molecular Weight		
	Low Gel		
	Moisture Barrier		
	Recyclable Material		
Uses	Bags		
	Film		
	Packaging		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.946	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	0.80	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1200	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	25.0	MPa	
TD : Yield, 25 μm, Blown Film	23.0	MPa	
MD : 25 μm, Blown Film	53.0	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)	95	g	ISO 7765-1/A
Elmendorf Tear Strength			ISO 6383-2
MD : 25 μm, Blown Film	0.23	N	
TD : 25 μm, Blown Film	2.7	N	
Spencer Impact - Blown Film (25.0 μm)	35.0	MPa	ASTM D3420
Oxidation Induction Time (200°C)	70	min	EN 728
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ISO 306/A120
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 220	°C	

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