

INSPIRE™ 137 (Film Extrusion)

Polypropylene

Braskem Europe GmbH

Message:

INSPIRE™ 137 Performance Polymer, is a high melt strength resin which provides bubble stability, low gel content and can be used as blend partner to make more cost effective films on all types of conventional blown film lines.

INSPIRE 137 Performance Polymer can be suggested for film and sheet extrusion.

INSPIRE 137 Performance Polymer exhibits:

High Melt Strength

Excellent Processability

Low gel content

High Impact and Puncture Resistance

Stiffness/Toughness Balance

Temperature Resistance

Complies with:

U.S. FDA 21 CFR 177.1520(c)3.2a

European Commission Regulation (EU) No 10/2011

Consult the regulations for detailed information.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a	
		Europe No 10/2011	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.80	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Energy (50 µm)	4.40	J	ASTM D5748
Film Puncture Force (50 µm)	92.0	N	ASTM D5748
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	624	MPa	ISO 527-3
2% secant, TD: 50 µm	584	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	34.0	MPa	ISO 527-3
TD: Yield, 50 µm	24.0	MPa	ISO 527-3
MD: Break, 50 µm	50.0	MPa	ISO 527-3
TD: Break, 50 µm	36.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	590	%	ISO 527-3
TD: Break, 50 µm	670	%	ISO 527-3
Dart Drop Impact (50 µm)	160	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922

MD : 50 μm	26	g	ASTM D1922
TD : 50 μm	57	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	19		ASTM D2457
Haze (50.0 μm)	36	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	230	°C	
Extrusion instructions			

吹塑薄膜的制造条件:

模具间隙:1.0 mm

熔体温度:230°C

放大比:2.5:1

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