



# INSPIRE 137

## Performance Polymer

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

## Regulatory Information

INSPIRE™ 137 Performance Polymer should comply with:

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

Europe EU-Directive 2002/72/EC

The appropriate regulations should be consulted for more detailed information.

Properties	Units		Test Method	Value
<b>Physical <sup>(1)</sup></b>				
Melt Flow Rate (230 °C, 2.16 kg)	g/10min		ISO 1133	0.8
Density	g/cm <sup>3</sup>		ISO 1183	0.9
<b>Film Properties, 50 um thickness <sup>(1,2)</sup></b>				
Puncture Resistance			ASTM D-5748	
Energy	J			4.4
Force	N			92
Dart Impact (Method A)	g		ISO 7765-1	155
Elmendorf Tear	g	MD	ASTM D-1922	26
		CD		57
Tensile Yield	MPa	MD	ISO 527-3	34
		CD		24
Ultimate Tensile	MPa	MD	ISO 527-3	50
		CD		36
Ultimate Elongation	%	MD	ISO 527-3	585
		CD		668
Tensile Modulus, 2% Secant	MPa	MD	ISO 527-3	624
		CD		584
<b>Optical Properties</b>				
Gloss 45°	Units		ASTM D-2457	19
Haze	%		ISO 14782	36

<sup>(1)</sup> Typical values; not to be construed as specification limits.

<sup>(2)</sup> Fabrication Conditions for blown film:

Die gap: 1.0 mm

Melt Temperature: 230

Blow-up Ratio: 2.5:1

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