

Braskem INSPIRE™ 137 NA Performance Polypropylene Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Blow Molding Grade , Polypropylene, Extrusion Grade , Polypropylene, Film Grade , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

INSPIRE™ 137 Performance polymer is an impact copolymer, primarily designed for film extrusion and suitable for blow molding where high mechanical properties are of the highest importance. INSPIRE 137 Performance Polymer is a high molecular weight, high impact copolymer with a broad molecular weight distribution. Applications Film Sheet and boards Adhesive tape Paper lamination Extrusion profiles and pipes Drainage and sewage pipes Blow molded containers (detergents, toiletries, foodstuffs) Complies with US FDA FCN 843 This product line was spun off from Dow Chemical to Braskem

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-INSPIRE-137-NA-Performance-Polypropylene-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Index of Compound	0.80 g/10 min @Load 2.16 kg, Temperature 230 °C	0.80 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	Injection Molded; ISO 527-2
Elongation at Yield	15 %	15 %	Injection Molded; ASTM D638
Flexural Modulus	1.00 GPa	145 ksi	Injection Molded; ISO 178
Charpy Impact, Notched	8.00 J/cm ² @Temperature -20.0 °C	38.1 ft-lb/in ² @Temperature -4.00 °F	Injection Molded; ISO 75-2/B
	12.0 J/cm ² @Temperature 0.000 °C	57.1 ft-lb/in ² @Temperature 32.0 °F	Injection Molded; ISO 75-2/B
	55.0 J/cm ² @Temperature 23.0 °C	262 ft-lb/in ² @Temperature 73.4 °F	Injection Molded; ISO 75-2/B

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	Unannealed; ISO 75-2/B
Vicat Softening Point	146 °C	295 °F	ISO 306/A

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