

Braskem INSPIRE™ 137 NA Performance Polypropylene Polymer

Categories: [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

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

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; IDO 75-2/B
Vicat Softening Point	146 °C	295 °F	ISO 306/A

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.