

Braskem INSPIRE™ 222 Performance Polypropylene Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

INSPIRE™ 222 Performance Polymer is intended for use in extrusion and thermoforming processes. It is especially suited in applications requiring excellent clarity and good stiffness. Contains a nucleating agent High clarity Complies with Europe EU-Directive 2002/72/EC, U.S. FDA 21 CFR 177.1520(c)3.2a 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-222-Performance-Polypropylene-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Index of Compound	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.2 MPa	5110 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus, 1% Secant	1450 MPa	210000 psi	ASTM D790
Izod Impact, Notched	0.214 J/cm	0.401 ft-lb/in	ASTM D256A
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.694 J/cm	1.30 ft-lb/in	ASTM D256A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	DSC; Dow Method
Deflection Temperature at 0.46 MPa (66 psi)	112 °C	234 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	2.6 %	2.6 %	254 microns; Thermoformed; ASTM D1003
	21 %	21 %	1020 microns; Injection Molded; ASTM D1003

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