

Braskem INSPIRE™ 404 Performance Polypropylene Polymer

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

Material Notes:

INSPIRE 404 Performance Polymer is a propylene-based resin intended for use in thermoforming applications where exceptional stiffness, clarity and heat resistance is desired. The high stiffness of the resin may allow for the potential to down gauge and reduce part weight. The product is well suited for thin wall containers, serveware and closure applications such as clear drink cups, deli containers, take-out containers, bowls and clear lids. Main Characteristics Contains a nucleating agent Excellent balance of stiffness and clarity Superior heat resistance over conventional polypropylene Complies with U.S. FDA 21 CFR 117.1520(c)3.2a (with Restrictions) Canadian HPFB No Obligation 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-404-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	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.1 MPa	6110 psi	ASTM D638
Flexural Modulus, 1% Secant	2070 MPa	300000 psi	ASTM D790B
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	129 °C	264 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	1000 microns; ASTM D1003

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