

Dow INSPIRE™ 404 Performance Polymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

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. It contains a nucleating agent, it is an excellent balance of stiffness and clarity, it has superior heat resistance over conventional polypropylene, and it complies with U.S. FDA 21 CFR 177.1520(c)3.2a (with Restrictions) Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-INSPIRE-404-Performance-Polymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Flow	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	6100 psi	ASTM D638
Flexural Modulus	2.07 GPa	300 ksi	1% Secant; ASTM D790B
Izod Impact, Notched	0.374 J/cm	0.700 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 % @Thickness 1.00 mm	16 % @Thickness 0.0394 in	ASTM D1003

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