

Dow R7021-50RNA Polypropylene Random Copolymer Resin

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Impact Modified; Molded/Extruded , Polypropylene, Molded

Material Notes:

DOW™ R7021-50RNA Polypropylene Resin is a random copolymer designed for thin wall injection molding applications desiring high clarity. Main Characteristics Good impact properties Excellent optics Fast cycle times Contains clarifier and antistat additives Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a Dow Announced Sale of Global Polypropylene Business to Braskem in July 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-R7021-50RNA-Polypropylene-Random-Copolymer-Resin.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Index of Compound	50 g/10 min @Load 2.16 kg, Temperature 230 °C	50 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.6 MPa	4000 psi	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus, 1% Secant	1070 MPa	155000 psi	ASTM D790A
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	77.8 °C	172 °F	Unannealed; ASTM D648

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	508 microns; ASTM D1003
	14 %	14 %	1020 microns; ASTM D1003

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