

PolyMirae Moplen RP343N Injection Molding Grade Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Moplen RP343N is the polypropylene random copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen RP343N is a random copolymer particularly suitable for injection molding of houseware. Moplen RP343N meets the FDA requirement in the code of Federal Regulations in 21 CFR 177.1520. And the components of additives are adequate on the food packaging substances specification of FDA regulation 21 CFR 178.2010. Features: Excellent Transparency; Low odor; High gloss; Good flowability; Good mechanical property balance Applications: Houseware; ISB Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-RP343N-Injection-Molding-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	30.4 MPa	4410 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	1.27 GPa	185 ksi	ASTM D790
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648
Vicat Softening Point	135 °C	275 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	

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