

PolyMirae Moplen EP540S Injection Molding Grade Polypropylene

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

Material Notes:

Moplen EP540S is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process. Moplen EP540S is a block copolymer particularly suitable for injection molding of houseware, thin wall containers, etc. Moplen EP540S resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 178.2010 for food packaging substances with adequate additives. And contains no dangerous substances according to Federal Regulations in 21 CFR 177.1520. Features: Optimized balance of stiffness and toughness; High impact strength even at low temperature; Narrow molecular weight distribution; Low warpage Applications: Houseware; Thin wall containers Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-EP540S-Injection-Molding-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	40 g/10 min @Load 2.16 kg, Temperature 230 °C	40 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	27.5 MPa	3980 psi	ASTM D638
Elongation at Yield	20 %	20 %	ASTM D638
Flexural Modulus	1.57 GPa	228 ksi	ASTM D790
Izod Impact, Notched	0.686 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ASTM D648
Vicat Softening Point	152 °C	306 °F	ASTM D1525

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