

PolyMirae Moplen EP500N Injection Molding Grade Polypropylene

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

Material Notes:

Moplen EP500N is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process.

Moplen EP500N is a block copolymer particularly suitable for injection molding of containers, parts of electrical appliances, crates and pails. Moplen EP500N 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: Optimized balance of stiffness and toughness; High impact strength even at low temperature; Narrow molecular weight distribution; Low warpage; High whiteness; High gloss Applications: Parts of electrical appliances; Pail; Housewares; Furniture (Chairs) Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-EP500N-Injection-Molding-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 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	26.5 MPa	3840 psi	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	1.13 GPa	164 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm @Temperature -20.0 °C	0.918 ft-lb/in @Temperature -4.00 °F	ASTM D256
	0.981 J/cm @Temperature 23.0 °C	1.84 ft-lb/in @Temperature 73.4 °F	ASTM D256

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