

PolyMirae Moplen EP300L Injection Molding Grade Polypropylene

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

Material Notes:

Moplen EP300L is the polypropylene block copolymer manufactured by PMC under the license of BASELL using the Spheripol process.

Moplen EP300L is a block copolymer selected by customers for use in injection molding of toys, crates, battery case. Moplen EP300L resin meets the FDA requirements in the Code of Federal Regulations in 21 CFR 177.1520 for food contact. Moplen EP300L has a flame rating of UL94HB. Features: Optimized balance of stiffness and toughness; High impact strength at low temperature; High stiffness; Low warpage Applications: Toy; Pail; Crate; Houseware Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-EP300L-Injection-Molding-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	5.0 g/10 min	5.0 g/10 min	Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength, Yield	25.5 MPa	3700 psi	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus	1.03 GPa	149 ksi	ASTM D790
Izod Impact, Notched	0.785 J/cm	1.47 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	4.90 J/cm	9.18 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ASTM D648
Vicat Softening Point	150 °C	302 °F	ASTM D1525
Flammability, UL94	HB	HB	

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