

PolyMirae Moplen HP500G Sheet and Thermoforming Grade Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Sheet/Thermoforming Grade

Material Notes:

Moplen HP500G is the polypropylene homopolymer manufactured by PMC under the license of BASSELL using the Spheripol process. Moplen HP500G is a homopolymer particularly suitable for sheet, thermoforming and stripe. Moplen HP500G 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: Excellent processibility and stretchability; High mechanical properties; High melt strength Applications: Food packaging and tray (Thermoforming); Bottle (Blow molding); Blown film; High strength for rope, container bag, extruded nets Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-HP500G-Sheet-and-Thermoforming-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	1.25 g/10 min @Load 2.16 kg, Temperature 230 °C	1.25 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	36.3 MPa	5260 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	1.52 GPa	220 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm	0.918 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	108 °C	226 °F	ASTM D648
Vicat Softening Point	156 °C	313 °F	ASTM D1525

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