

Flint Hills P5M6K-080 Polypropylene Random Copolymer

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

Material Notes:

Features: Clarified, Gamma Radiation Sterilizable. Product does not contain animal derived components. Phthalate-free.Applications:

Injection molding: Disposable Syringes. This product is not recommended for autoclave sterilization processes in the presence of aqueous solutions.Information Provided by Flint Hills Resources

Order this product through the following link:

http://www.lookpolymers.com/polymer_Flint-Hills-P5M6K-080-Polypropylene-Random-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	27 g/10 min	27 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	85	85	ASTM D785
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
Elongation at Yield	14 %	14 %	ASTM D638
Flexural Modulus, 1% Secant	966 MPa	140000 psi	ASTM D790
Izod Impact, Notched	0.750 J/cm @Temperature 23.0 Â°C	1.41 ft-lb/in @Temperature 73.4 Â°F	ASTM D256
Gardner Impact	27.0 J @Temperature 23.0 Â°C	19.9 ft-lb @Temperature 73.4 Â°F	ASTM D5420
Tangent Modulus	1000 MPa	145000 psi	ASTM D790

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 Â°C	178 Â°F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	13 % @Thickness 1.27 mm	13 % @Thickness 0.0500 in	ASTM D1003

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