

PolyMirae Moplen HF550K Stretch/Yarn, Monofilament Grade Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Fiber Grade

Material Notes:

Moplen HF550K is the ADDIFORM polypropylene homopolymer manufactured by PMC under the license of BASSELL using the Spheripol process. Its appearance is spherical, white particle with diameter of 1mm ~4mm. Moplen HF550K is a homopolymer suitable for textile film yarn, carpet backing, rope and monofilament. Moplen HF550K 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: Better mechanical properties; Processability and stretchability than conventional PP Applications: Textile film yarn; Carpet backing; Rope; Monofilament Information provided by PolyMirae Company Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyMirae-Moplen-HF550K-StretchYarn-Monofilament-Grade-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 230 °C	4.5 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	1.57 GPa	228 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)	104 °C	219 °F	ASTM D648
Vicat Softening Point	154 °C	309 °F	ASTM D1525

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