

## PolyMirae Moplen HP550K Stretch/Yarn, Monofilament Grade Polypropylene

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

**Material Notes:**

Moplen HP550K is the polypropylene homopolymer manufactured by PMC under the license of BASSELL using the Spheripol process. Moplen HP550K is a homopolymer suitable for rope, tape, yarn, monofilament and sheet. Moplen HP550K 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: Good mechanical properties Applications: Rope; Tape; Yarn; Monofilament; Sheet Information provided by PolyMirae Company Ltd.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyMirae-Moplen-HP550K-StretchYarn-Monofilament-Grade-Polypropylene.php](http://www.lookpolymers.com/polymer_PolyMirae-Moplen-HP550K-StretchYarn-Monofilament-Grade-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 230 °C	3.5 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	35.3 MPa	5120 psi	ASTM D638
Elongation at Yield	12 %	12 %	ASTM D638
Flexural Modulus	1.47 GPa	213 ksi	ASTM D790
Izod Impact, Notched	0.392 J/cm	0.735 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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