

Washington Penn High Modulus Polypropylene Homopolymer 40% Glass/Mica Filled

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Mica-filled polypropylene compounds provide the best strength and modulus of any of the particulate fillers which results in an outstanding balance of properties. Mold shrinkage is similar to ABS and parts run in ABS tooling may be useable in size and fit. Compounds may also be supplied with very high rigidity and heat deflection temperatures. Information provided by Washington Penn Plastic Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Washington-Penn-High-Modulus-Polypropylene-Homopolymer-40-GlassMica-Filled.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Filler Content	40 %	40 %	
Melt Flow	14 g/10 min	14 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	6.6 %	6.6 %	ASTM D638
Elongation at Yield	6.6 %	6.6 %	ASTM D638
Flexural Modulus	7.481 GPa	1085 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256
Gardner Impact	0.904 J @Temperature 23.0 °C	0.667 ft-lb @Temperature 73.4 °F	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	152 °C	305 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	ASTM D648

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