

Washington Penn Homopolymer Polypropylene 40% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

Material Notes:

Fiberglass & mineral-reinforced polypropylene compounds provide excellent tensile and impact properties. Mold shrinkage is similar to ABS and polystyrene. Compounds also have dimensional stability. The glass-reinforcement provides a better strength and modulus than any of the particulate mineral fillers. Information provided by Washington Penn Plastic Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Washington-Penn-Homopolymer-Polypropylene-40-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Filler Content	40 %	40 %	
Melt Flow	12 g/10 min	12 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	ASTM D638
Elongation at Break	6.7 %	6.7 %	ASTM D638
Elongation at Yield	6.7 %	6.7 %	ASTM D638
Flexural Modulus	6.65 GPa	965 ksi	1% Secant; ASTM D790
	7.31 GPa	1060 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM D648

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