

Washington Penn Homopolymer Polypropylene 27% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-27-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792
Filler Content	27 %	27 %	
Melt Flow	7.0 g/10 min	7.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	71.0 MPa	10300 psi	ASTM D638
Elongation at Break	7.2 %	7.2 %	ASTM D638
Elongation at Yield	7.2 %	7.2 %	ASTM D638
Flexural Modulus	4.31 GPa	625 ksi	1% Secant; ASTM D790
	4.41 GPa	640 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256
Gardner Impact	0.904 J	0.667 ft-lb	ASTM D5420
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	3.2	3.2	Dynatup Impact, in/in; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648

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