

Washington Penn Polypropylene Copolymer 30% 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-Polypropylene-Copolymer-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Filler Content	30 %	30 %	
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	73.1 MPa	10600 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Modulus	4.76 GPa	690 ksi	1% Secant; ASTM D790
	4.96 GPa	720 ksi	Tangent; ASTM D790
Izod Impact, Notched	1.17 J/cm	2.20 ft-lb/in	ASTM D256
Gardner Impact	1.81 J	1.33 ft-lb	ASTM D5420
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact	5.7	5.7	Dynatup Impact, in/in; ASTM D3763

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)	143 °C	290 °F	ASTM D648

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