

Washington Penn Polypropylene Copolymer 20% Glass Reinforced, 11 MFI

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-20-Glass-Reinforced-11-MFI.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Filler Content	20 %	20 %	
Melt Flow	11 g/10 min	11 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	14 %	14 %	ASTM D638
Elongation at Yield	11 %	11 %	ASTM D638
Flexural Modulus	2.28 GPa	330 ksi	1% Secant; ASTM D790
	2.41 GPa	350 ksi	Tangent; ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 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	3.8	3.8	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)	116 °C	240 °F	ASTM D648

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