

## Washington Penn Homopolymer Polypropylene 20% Glass Reinforced

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-Homopolymer-Polypropylene-20-Glass-Reinforced.php](http://www.lookpolymers.com/polymer_Washington-Penn-Homopolymer-Polypropylene-20-Glass-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	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	66.2 MPa	9600 psi	ASTM D638
Elongation at Break	6.9 %	6.9 %	ASTM D638
Elongation at Yield	6.9 %	6.9 %	ASTM D638
Flexural Modulus	3.45 GPa	500 ksi	1% Secant; ASTM D790
	3.65 GPa	530 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 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	1.2	1.2	Dynatup Impact, in/in; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 °C	315 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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