

Spartech PP5440 Glass Fiber Reinforced Homopolymer

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

Material Notes:

Provides the maximum strength and heat resistance among polypropylene compounds. Physical properties can approach those of more expensive engineering resins. Information provided by Spartech

Order this product through the following link:

http://www.lookpolymers.com/polymer_Spartech-PP5440-Glass-Fiber-Reinforced-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc @Temperature 22.8 Â°C	1.23 g/cc @Temperature 73.0 Â°F	ASTM D792
Filler Content	40 %	40 %	
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	0.125inch wall

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Elongation at Yield	1.0 %	1.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	Max Load; ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	secant; ASTM D790
	7.58 GPa	1100 ksi	tangent; ASTM D790
Izod Impact, Notched	0.854 J/cm @Temperature 22.8 Â°C	1.60 ft-lb/in @Temperature 73.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	157 Â°C	315 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Â°C	300 Â°F	ASTM D648

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