

Polyplastic Armlen® PP GF 20-1EX Polypropylene Copolymer, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armlen-PP-GF-20-1EX-Polypropylene-Copolymer-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294-4
Melt Flow	0.50 - 1.0 g/10 min @Load 2.16 kg, Temperature 230 °C	0.50 - 1.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 5272
Elongation at Break	7.5 %	7.5 %	ISO 527
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -40.0 °C	23.8 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eU
	6.50 J/cm ² @Temperature 20.0 °C	30.9 ft-lb/in ² @Temperature 68.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature -40.0 °C	4.76 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eA
	2.20 J/cm ² @Temperature 20.0 °C	10.5 ft-lb/in ² @Temperature 68.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	29.0 µm/m-°C	16.1 µin/in-°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	ISO 75

Processing Properties	Metric	English	Comments
Melt Temperature	145 °C	293 °F	

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