

Polyplastic Armamid® PA GF50-1 Nylon 6, 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

High stiffness Information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armamid-PA-GF50-1-Nylon-6-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption	0.95 % @Time 86400 sec	0.95 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	<= 0.0020 cm/cm	<= 0.0020 in/in	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 37
Elongation at Break	3.0 %	3.0 %	ISO 37
Flexural Strength	290 MPa	42100 psi	ISO 178
Flexural Modulus	12.0 GPa	1740 ksi	ISO 178
Charpy Impact Unnotched	6.50 J/cm ² @Temperature -40.0 °C	30.9 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eU
	7.50 J/cm ² @Temperature 23.0 °C	35.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm ² @Temperature -40.0 °C	4.28 ft-lb/in ² @Temperature -40.0 °F	ISO 179/1eA
	1.20 J/cm ² @Temperature 20.0 °C	5.71 ft-lb/in ² @Temperature 68.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	ISO 75
Glow Wire Test	650 °C @Thickness 1.60 mm	1200 °F @Thickness 0.0630 in	IEC 60695-2-1

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 270 °C	500 - 518 °F	
Mold Temperature	80.0 °C	176 °F	
Drying Temperature	85.0 °C @Time 7200 - 14400 sec	185 °F @Time 2.00 - 4.00 hour	

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