

Polyplastic Armamid® PA GF25-1FR Nylon 6, 25% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Glass Fiber Filled , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Flame retardant, RoHS compliant Information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armamid-PA-GF25-1FR-Nylon-6-25-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Linear Mold Shrinkage	<= 0.0020 cm/cm	<= 0.0020 in/in	
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	ISO 37
Elongation at Break	3.0 %	3.0 %	ISO 37
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
Charpy Impact Unnotched	4.00 J/cm ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ISO 75
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 1.60 mm	1760 °F @Thickness 0.0630 in	IEC 60695-2-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Comparative Tracking Index	350 V	350 V	IEC 60112

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	260 - 270 °C	500 - 518 °F	
Mold Temperature	90.0 °C	194 °F	
Drying Temperature	85.0 °C @Time 7200 - 14400 sec	185 °F @Time 2.00 - 4.00 hour	

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