

Polyplastic Armamid® PA6 GF 30 HS-901 Nylon, 30% Glass Filled

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

Material Notes:

Injection molding, heat stabilized Information provided by PolyPlastic Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyplastic-Armamid-PA6-GF-30-HS-901-Nylon-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
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
Ash	30 %	30 %	ISO 3451

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	ISO 527-1/-2
Elongation at Break	4.9 %	4.9 %	ISO 527-1/-2
Tensile Modulus	9.70 GPa	1410 ksi	ISO 527-1/-2
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Modulus	8.50 GPa	1230 ksi	ISO 178
Charpy Impact Unnotched	7.80 J/cm ² @Temperature 23.0 °C	37.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	203 °C	397 °F	ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 290 °C	536 - 554 °F	
Mold Temperature	80.0 °C	176 °F	
	85.0 °C	185 °F	

Processing Properties	Metric	English	Comments
	@ Time 14400 - 21600 sec	@ Time 4.00 - 6.00 hour	

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