

Solvay Specialty Polymers Amodel® A-1130 FW Polyphthalamide (PPA), 30% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

Amodel® A-1130 FW is a 30% glass-fiber reinforced polyphthalamide (PPA) grade containing a solid lubricant. This resin was designed for moderate-pressure, low-velocity friction and wear applications. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Good Wear Resistance; High Strength; Low Friction. Uses: Bearings; Bushings; Filters; Gears. Injection Molding Notes: Amodel® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Amodel® resins be dried prior to molding. Automotive Specifications ASTM D6779 PA1270G30; ISO 1874-PA6T/6I/66, MH, 11-110, GF30. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1130-FW-Polyphthalamide-PPA-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	187 MPa	27100 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	11.2 GPa	1620 ksi	ISO 527-2
Flexural Strength	252 MPa	36500 psi	ISO 178
Flexural Modulus	9.58 GPa	1390 ksi	ISO 178

Thermal Properties	Metric	English	Comments
Melting Point	313 °C	595 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	304 - 318 °C	579 - 604 °F	
Front Barrel Temperature	316 - 329 °C	601 - 624 °F	
Melt Temperature	329 - 343 °C	624 - 649 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	135 Å°C	275 Å°F	
Drying Temperature	110 Å°C @Time 14400 sec	230 Å°F @Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	PTFE Lubricant	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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