

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

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

Material Notes:

Amodel® DW-1130 is a 30% glass-fiber-reinforced resin designed for high strength and stiffness and improved hydrolytic stability. This material has low moisture absorption and a low coefficient of thermal expansion, which means excellent dimensional stability. Creep resistance is also exceptional. Features: Chlorine Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Good Strength; High Temperature Strength; Low Moisture Absorption. Uses: Appliances; Consumer Applications; Filters; Housings; Industrial Applications; Plumbing Parts; Pump Parts; Valves/Valve Parts. 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. Additional Properties: Flexural Strain at Break - ISO 178 (23°C): 2.9 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	210 MPa	30500 psi	ISO 527-2
Elongation at Break	2.3 %	2.3 %	ISO 527-2
Tensile Modulus	11.9 GPa	1730 ksi	ISO 527-2
Flexural Strength	300 MPa	43500 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ISO 178
Izod Impact, Notched (ISO)	7.20 kJ/m ²	3.43 ft-lb/in ²	ISO 180
Charpy Impact Unnotched	5.60 J/cm ²	26.6 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.720 J/cm ²	3.43 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	290 °C	554 °F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Middle Barrel Temperature	320 - 340 Â°C	608 - 644 Â°F	
Front Barrel Temperature	325 - 345 Â°C	617 - 653 Â°F	
Melt Temperature	340 - 360 Â°C	644 - 680 Â°F	
Mold Temperature	160 Â°C	320 Â°F	
Drying Temperature	120 Â°C @Time 14400 sec	248 Â°F @Time 4.00 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Suggested Max

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

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