

Solvay Specialty Polymers Amodel® A-8950 HS Polyphthalamide (PPA), 50% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Amodel® A-8950 HS is a 50% glass-fiber-reinforced, heat-stabilized polyphthalamide (PPA) with a high heat deflection temperature and very high tensile strength. Excellent creep resistance, low moisture absorption and glycol resistance are also characteristic of this resin. Features: Glycol Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption. Uses: Appliances; Automotive Applications; Automotive Electronics; Connectors; Consumer Applications; Housings; Industrial Applications; Machine/Mechanical Parts; Metal Replacement. 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-8950-HS-Polyphthalamide-PPA-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	275 MPa	39900 psi	ISO 527-2
Elongation at Break	2.1 %	2.1 %	ISO 527-2
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	Type 1, Edgewise; ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm ²	5.23 ft-lb/in ²	Type 1, Edgewise; ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	325 Â°C	617 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	310 Â°C	590 Â°F	HDT B; Unannealed; Flatwise; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	295 Â°C	563 Â°F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Middle Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Front Barrel Temperature	324 - 335 Â°C	615 - 635 Â°F	
Melt Temperature	321 - 343 Â°C	610 - 649 Â°F	
Mold Temperature	150 Â°C	302 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	
Form	Pellets	
Processing Technique	Injection Molding	

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