

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

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

### Material Notes:

Amodel® AE-8950 is a 50% glass reinforced polyphthalamide (PPA) designed to work in the modern automotive electrical environment. 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; Non-Corrosive Uses: Automotive Electronics; Connectors; Electrical Parts; Electrical/Electronic Applications 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 - ISO 178 2.3 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AE-8950-Polyphthalamide-PPA-50-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AE-8950-Polyphthalamide-PPA-50-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in <sup>3</sup>	ISO 1183
Filler Content	50 %	50 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	280 MPa	40600 psi	ISO 527-2
Elongation at Break	2.1 %	2.1 %	ISO 527-2
Tensile Modulus	19.8 GPa	2870 ksi	ISO 527-2
Flexural Strength	400 MPa	58000 psi	ISO 178
Flexural Modulus	18.5 GPa	2680 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Type 1, Notch A; ISO 180
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	325 °C	617 °F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	300 °C	572 °F	Unannealed; ISO 75-2/A
Glass Transition Temp, Tg	135 °C	275 °F	DSC

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 330 Å°C	601 - 626 Å°F	
Middle Barrel Temperature	316 - 330 Å°C	601 - 626 Å°F	
Front Barrel Temperature	324 - 340 Å°C	615 - 644 Å°F	
Melt Temperature	330 - 350 Å°C	626 - 662 Å°F	
Mold Temperature	150 - 165 Å°C	302 - 329 Å°F	
Drying Temperature	120 Å°C @Time 14400 sec	248 Å°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	

## Contact Songhan Plastic Technology Co.,Ltd.

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