Solvay Specialty Polymers AmodelÂ® AE-8930 Polyphthalamide (PPA), 30% Glass Fiber

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

Material Notes:

AmodelÂ® AE-8930 is a 30% 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-CorrosiveUses: Automotive Electronics; Connectors; Electrical Parts; Electrical/Electronic ApplicationsInjection Molding Notes: AmodelÂ® 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 50Â°C (122Â°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 AmodelÂ® resins be dried prior to molding.Additional Properties: Flexural Strain - ISO 178 2.9 %Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AE-8930-Polyphthalamide-PPA-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/inÂ³	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	ISO 178
Flexural Modulus	11.0 GPa	1600 ksi	ISO 178
Izod Impact, Notched (ISO)	7.20 kJ/mÂ²	3.43 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Charpy Impact Unnotched	5.60 J/cmÂ²	26.6 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	0.720 J/cmÂ²	3.43 ft-lb/inÂ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	325 Â°C	617 Â°F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	290 Â°C	554 Â°F	Unannealed; ISO 75-2/A
Glass Transition Temp, Tg	135 Â°C	275 Â°F	DSC

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

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.02 @Frequency 1.00e+6 Hz	4.02 @Frequency 1.00e+6 Hz	ASTM D150
	4.35 @Frequency 60.0 Hz	4.35 @Frequency 60.0 Hz	ASTM D150
Dissipation Factor	0.0070 @Frequency 60.0 Hz	0.0070 @Frequency 60.0 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 330 Â°C	601 - 626 Â°F	
Middle Barrel Temperature	316 - 330 Â°C	601 - 626 Â°F	
Front Barrel Temperature	324 - 340 Â°C	615 - 644 Â°F	
Melt Temperature	330 - 350 Â°C	626 - 662 Â°F	
Mold Temperature	150 - 165 Â°C	302 - 329 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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