Solvay Specialty Polymers AmodelÂ® A-8940 HS Polyphthalamide (PPA), 40% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

AmodelÂ® A-8940 HS is a 40% glass-fiber-reinforced, heat-stabilized polyphthalamide (PPA) with a high heat deflection temperature and very high tensile strength. Excellent creep resistance and low moisture absorption are also characteristic of this resin.Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Stiffness; High Strength; High Temperature Strength; Low Moisture AbsorptionUses: Appliances; Automotive Applications; Automotive Electronics; Connectors; Consumer Applications; Housings; Industrial Applications; Machine/Mechanical Parts; Metal ReplacementInjection 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 at Break - ISO 178 (23Â°C): 2.6 %Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-8940-HS-Polyphthalamide-PPA-40-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/inÂ³	ISO 1183
Filler Content	40 %	40 %	Glass Fiber
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0034 cm/cm	0.0034 in/in	
Linear Mold Shrinkage, Transverse	0.0068 cm/cm	0.0068 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	243 MPa	35200 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	15.1 GPa	2190 ksi	ISO 527-2
Flexural Strength	357 MPa	51800 psi	ASTM D790
Flexural Modulus	14.5 GPa	2100 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/mÂ²	4.76 ft-lb/inÂ²	ISO 180
Izod Impact, Unnotched (ISO)	55.0 kJ/mÂ² @Temperature -30.0	26.2 ft-lb/inÂ² @Temperature -22.0	ISO 180

Mechanical Properties	Metric	English	Comments
	59.0 kJ/mÂ² @Temperature 23.0 Â°C	28.1 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 180
Charpy Impact Unnotched	5.90 J/cmÂ²	28.1 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	0.950 J/cmÂ² @Temperature -30.0 Â°C	4.52 ft-lb/inÂ² @Temperature -22.0 Â°F	Type 1, Edgewise; ISO 179
	0.970 J/cmÂ² @Temperature 23.0 Â°C	4.62 ft-lb/inÂ² @Temperature 73.4 Â°F	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	323 Â°C	613 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	311 Â°C	592 Â°F	HDT B; Unannealed; Flatwise; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	293 Â°C	559 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	170 Â°C	338 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
Additive	Heat Stabilizer	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	

Descriptive Properties	Value	Comments
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	

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