

Solvay Specialty Polymers Amodel® HFZ A-1133 L Polyphthalamide (PPA), 33% Glass Fiber

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

Material Notes:

Amodel® HFZ A-1133 L is a high-flow, 33% glass fiber reinforced polyphthalamide (PPA) grade. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Flow; High Stiffness; High Strength; High Temperature Strength. Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Bobbins; Connectors; Electrical/Electronic Applications; General Purpose; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; 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-HFZ-A-1133-L-Polyphthalamide-PPA-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Filler Content	33 %	33 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	188 MPa	27300 psi	ISO 527-2
Elongation at Break	1.7 %	1.7 %	ISO 527-2
Tensile Modulus	11.2 GPa	1620 ksi	ISO 527-2
Flexural Strength	268 MPa	38900 psi	ISO 178
Flexural Modulus	10.4 GPa	1510 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.820 J/cm ²	3.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	296 °C	565 °F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 329 °C	601 - 624 °F	
Middle Barrel Temperature	316 - 329 °C	601 - 624 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	324 - 335 Â°C	613 - 635 Â°F	
Melt Temperature	321 - 345 Â°C	610 - 653 Â°F	
Mold Temperature	150 Â°C	302 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 14400 sec	@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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