Solvay Specialty Polymers AmodelÂ® AFA-6133 V0 Z Polyphthalamide (PPA), 33% Glass Fiber (Conditioned)

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

Material Notes:

AmodelÂ® AFA-6133 V0 Z is a 33% glass-fiber reinforced, flame retardant grade of polyphthalamide (PPA) resin specifically formulated for connector applications requiring compatibility with both infrared and vapor phase soldering operations typically used by the electronics industry.Features: Flame Retardant; Good Chemical Resistance; Good Dimensional Stability; Good Electrical Properties; Good Stiffness; High Flow; High Strength; Hot Water MoldabilityUses: Automotive Applications; Automotive Electronics; Bobbins; Connectors; 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.Automotive Specifications ASTM D6779 PA104G35; GM GMW15702 Color: BK BlackInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AFA-6133-V0-Z-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/inÂ³	Dry; ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	166 MPa	24100 psi	ASTM D638
Tensile Strength, Yield	63.4 MPa @Temperature 175 Â°C	9200 psi @Temperature 347 Â°F	4; ISO 527-2
	75.2 MPa @Temperature 150 Â°C	10900 psi @Temperature 302 Â°F	4; ISO 527-2
	114 MPa @Temperature 100 Â°C	16500 psi @Temperature 212 Â°F	4; ISO 527-2
	186 MPa @Temperature 23.0 Â°C	27000 psi @Temperature 73.4 Â°F	4; ISO 527-2
Elongation at Break	1.7 %	1.7 %	ASTM D638

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 527-2
	2.4 % @Temperature 100 Â°C	2.4 % @Temperature 212 Â°F	ISO 527-2
	4.9 % @Temperature 175 Â°C	4.9 % @Temperature 347 Â°F	ISO 527-2
	5.1 % @Temperature 150 Â°C	5.1 % @Temperature 302 Â°F	ISO 527-2
Tensile Modulus	13.7 GPa	1990 ksi	ASTM D638
	5.10 GPa @Temperature 175 Â°C	740 ksi @Temperature 347 Â°F	4; ISO 527-2
	5.90 GPa @Temperature 150 Â°C	856 ksi @Temperature 302 Â°F	4; ISO 527-2
	9.20 GPa @Temperature 100 Â°C	1330 ksi @Temperature 212 Â°F	4; ISO 527-2
	14.5 GPa @Temperature 23.0 Â°C	2100 ksi @Temperature 73.4 Â°F	4; ISO 527-2
Flexural Strength	229 MPa	33200 psi	ASTM D790
	88.0 MPa @Temperature 175 Â°C	12800 psi @Temperature 347 Â°F	4; ISO 178
	101 MPa @Temperature 150 Â°C	14600 psi @Temperature 302 Â°F	4; ISO 178
	161 MPa @Temperature 100 Â°C	23400 psi @Temperature 212 Â°F	4; ISO 178
	259 MPa @Temperature 23.0 Â°C	37600 psi @Temperature 73.4 Â°F	4; ISO 178
Flexural Modulus	13.3 GPa	1930 ksi	ASTM D790
	4.60 GPa @Temperature 175 Â°C	667 ksi @Temperature 347 Â°F	ISO 178

Mechanical Properties	Metric	English	Comments
	5.00 GPa @Temperature 150 Â°C	725 ksi @Temperature 302 Â°F	ISO 178
	8.10 GPa @Temperature 100 Â°C	1170 ksi @Temperature 212 Â°F	ISO 178
	12.6 GPa @Temperature 23.0 Â°C	1830 ksi @Temperature 73.4 Â°F	ISO 178
Shear Strength	62.1 MPa	9010 psi	ASTM D732
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	44.0 kJ/mÂ²	20.9 ft-lb/inÂ²	Type 1; ISO 180
Charpy Impact Unnotched	4.70 J/cmÂ²	22.4 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	1.40 J/cmÂ²	6.66 ft-lb/inÂ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	310 Â°C	590 Â°F	Peak; Dry; ASTM D3418
	310 Â°C	590 Â°F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	282 Â°C	540 Â°F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	327 - 332 Â°C	621 - 630 Â°F	
Middle Barrel Temperature	316 - 324 Â°C	601 - 615 Â°F	
Front Barrel Temperature	316 - 324 Â°C	601 - 615 Â°F	
Melt Temperature	321 - 338 Â°C	610 - 640 Â°F	
Mold Temperature	65.6 - 93.3 Â°C	150 - 200 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	Flame Retardant	

Descriptive Properties	Value	Comments
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Part Marking Code	>PA6T/66-GF33<	ISO 11469
Processing Technique	Water-Heated Mold Injection Molding	
Resin ID	PA6T/66 GF33 FR(17)	ISO 1043
RoHS Compliance	RoHS Compliant	

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