

Solvay Specialty Polymers Amodel® AFA-6133 V0 Polyphthalamide (PPA) Resin, 33% Glass Reinforced, Dry As Molded & nbs

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

Material Notes:

AMODEL AFA-6133 V0 is a 33% glass-fiber reinforced grade of polyphthalamide (PPA) resin that was developed specifically for connector applications requiring compatibility with both "infrared" and "vapor phase" soldering operations typically used by the electronics industry. This resin processes readily using conventional injection molding equipment and methods. It offers high flow and short molding cycles. The processing window is relatively broad, and mold temperatures as low as 150°F (65°C) can be used. This product line was acquired by Solvay Advanced Polymers from BP Amoco in November 2001.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AFA-6133-V0-Polyphthalamide-PPA-Resin-33-Glass-Reinforced-Dry-As-Molded-nbs.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM E831
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM E831

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	170 MPa	24700 psi	ASTM D638
Elongation at Break	1.7 %	1.7 %	ASTM D638
Flexural Yield Strength	224 MPa	32500 psi	ASTM D790
Flexural Modulus	13.2 GPa	1910 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	310 °C	590 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	277 °C	531 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Constant	4.1	4.1	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
Dissipation Factor	0.011	0.011	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	321 - 338 °C	610 - 640 °F	Injection

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