

## Solvay Specialty Polymers Amodel® AF-4133 V0 Polyphthalamide (PPA) Resin, 33% Glass Reinforced (discontinued)

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

### Material Notes:

AMODEL AF-4133 V0 is a 33% glass reinforced grade of polyphthalamide (PPA) resin that was designed specifically to process with water-cooled molds and meet the requirements of most electrical/electronic interconnect devices. These components often consist of thin-walled, intricate designs, and frequently need to withstand IR solder reflow temperatures, pin insertions or other mechanical assembly, and may be exposed to potential ignition sources. Therefore, the material has good mechanical strength, high deflection temperature, flame retardancy, and good flow. This material processes readily using conventional injection molding equipment and methods. 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-AF-4133-V0-Polyphthalamide-PPA-Resin-33-Glass-Reinforced-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AF-4133-V0-Polyphthalamide-PPA-Resin-33-Glass-Reinforced-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hrs. ASTM D570
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	178 MPa	25800 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	332 °C	630 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	294 °C	561 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
	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	5.00e+13 ohm	5.00e+13 ohm	ASTM D257
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
Arc Resistance	>= 300 sec	>= 300 sec	UL 746A
Comparative Tracking Index	500 V	500 V	

Processing Properties	Metric	English	Comments
Melt Temperature	330 - 352 °C	626 - 666 °F	Injection

## Contact Songhan Plastic Technology Co.,Ltd.

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