

## Solvay Specialty Polymers Amodel® AFA-4133 V0 Z Polyphthalamide (PPA), Dry (discontinued \*\*)

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

### Material Notes:

Amodel AFA-4133 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. This resin has been shown to perform exceptionally well under soldering conditions that often cause blistering in many competitive resins. Its rapid crystallization rate can result in shorter cycles, thereby enhancing molding productivity and lowering costs. -

Black: AFA-4133 V0 Z BK 324 Injection Notes: Injection Rate: 3 to 4 in/sec Adjust holding pressure to 1/2 injection pressure. Set hold time to maximize part weight. A general purpose screw is recommended, with minimum back pressure.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AFA-4133-V0-Z-Polyphthalamide-PPA-Dry-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AFA-4133-V0-Z-Polyphthalamide-PPA-Dry-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.68 g/cc	1.68 g/cc	ASTM D792
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	165 MPa	23900 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Flexural Strength	221 MPa	32100 psi	ASTM D790
Flexural Modulus	13.1 GPa	1900 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	325 °C	617 °F	
Deflection Temperature at 1.8 MPa (264 psi)	295 °C	563 °F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.794 mm	V-0 @Thickness 0.0313 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	ASTM D257
Dielectric Constant	4.2	4.2	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149
	@Thickness 1.59 mm	@Thickness 0.0626 in	
Dissipation Factor	0.010	0.010	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Feed Temperature	79.4 °C	175 °F	Hopper Temperature
Rear Barrel Temperature	316 - 324 °C	601 - 615 °F	
Front Barrel Temperature	327 - 332 °C	621 - 630 °F	
Melt Temperature	329 - 341 °C	624 - 646 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	121 °C	250 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.15 %	0.15 %	

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Appearance	Black	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Fast Molding Cycle	

<b>Descriptive Properties</b>	<b>Flame Retardant Value</b>	<b>Comments</b>
	Good Chemical Resistance	
	Good Dimensional Stability	
	Good Electrical Properties	
	Good Stiffness	
	High Strength	
	Hot Water Moldability	
<b>Forms</b>	<b>Pellets</b>	
<b>Injection Rate</b>	<b>Fast</b>	
<b>Processing Method</b>	<b>Water-Heated Mold Injection Molding</b>	
<b>RoHS Compliance</b>	<b>RoHS Compliant</b>	
<b>Uses</b>	<b>Automotive Applications</b>	
	<b>Automotive Under the Hood</b>	
	<b>Connectors</b>	
	<b>Electrical Housing</b>	
	<b>Electrical Parts</b>	
	<b>Electrical/Electronic Applications</b>	
	<b>General Purpose</b>	
	<b>Housings</b>	
	<b>Industrial Applications</b>	
	<b>Industrial Parts</b>	
	<b>Lawn and Garden Equipment</b>	
	<b>Machine/Mechanical Parts</b>	
	<b>Metal Replacement</b>	
	<b>Power/Other Tools</b>	
	<b>Valves/Valve Parts</b>	

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