

## Solvay Specialty Polymers Amodel® AE-4133 Polyphthalamide (PPA), 33% Glass Fiber (Conditioned)

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

### Material Notes:

Amodel® AE-4133 is a 33% glass reinforced, hot-water moldable polyphthalamide (PPA) designed to work in the modern automotive electrical environment. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption Uses: Automotive Electronics; Connectors; Electrical Parts; Electrical/Electronic Applications 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-AE-4133-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AE-4133-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	Dry; ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Dry; ASTM D955

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.4	3.4	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.019	0.019	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.020	0.020	ASTM D150

Electrical Properties	@Frequency 60.0 Hz Metric	@Frequency 60.0 Hz English	Comments
Comparative Tracking Index	600 V	600 V	UL 746
High Voltage Arc-Tracking Rate, HVTR	18.0 mm/min	0.709 in/min	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	320 - 330 Â°C	608 - 626 Â°F	
Middle Barrel Temperature	320 - 330 Â°C	608 - 626 Â°F	
Front Barrel Temperature	327 - 335 Â°C	621 - 635 Â°F	
Melt Temperature	330 - 345 Â°C	626 - 653 Â°F	
Mold Temperature	65.0 - 95.0 Â°C	149 - 203 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
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

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