

## Solvay Specialty Polymers Amodel® AFA-6145 V0 Z Polyphthalamide (PPA) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

### Material Notes:

Amodel AFA-6145 V0 Z is a 45% 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. Amodel AFA-6145 V0 Z offers high flow and short molding cycles, thereby enhancing molding productivity and lowering costs. -  
Black: AFA-6145 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AFA-6145-V0-Z-Polyphthalamide-PPA-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AFA-6145-V0-Z-Polyphthalamide-PPA-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	ISO 1183/A
Filler Content	45 %	45 %	Glass Fiber Reinforcement
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	15.5 GPa	2250 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	310 °C	590 °F	Peak; ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	277 °C	531 °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+13 ohm	1.00e+13 ohm	ASTM D257
Dielectric Constant	4.1	4.1	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149
	@Thickness 1.59 mm	@Thickness 0.0626 in	
Dissipation Factor	0.011	0.011	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 324 °C	601 - 615 °F	
Front Barrel Temperature	327 - 332 °C	621 - 630 °F	
Melt Temperature	321 - 338 °C	610 - 640 °F	
Mold Temperature	65.6 - 93.3 °C	150 - 200 °F	
Drying Temperature	120 °C	248 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.045 %	0.045 %	

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Appearance	Black	
Automotive Specifications	ASTM D6779 PA104G45	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Flame Retardant	

Descriptive Properties	Value	Chemical Resistance	Comments
	Good Dimensional Stability		
	Good Electrical Properties		
	Good Stiffness		
	High Flow		
	High Strength		
	Hot Water Moldability		
Forms	Pellets		
Generic	PPA		
Injection Rate	Fast		
Processing Method	Water-Heated Mold Injection Molding		
RoHS Compliance	RoHS Compliant		
Uses	Automotive Applications		
	Automotive Electronics		
	Automotive Under the Hood		
	Cell Phones		
	Connectors		
	Housings		
	Industrial Applications		
	Industrial Parts		

## Contact Songhan Plastic Technology Co.,Ltd.

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