

## Solvay Specialty Polymers Amodel® A-1145 DW Polyphthalamide (PPA), 45% Glass Fiber

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

### Material Notes:

Amodel® A-1145 DW is a 45% glass-fiber-reinforced resin designed for high strength and stiffness and improved hydrolytic stability. This material has low moisture absorption and a low coefficient of thermal expansion, which means excellent dimensional stability. Creep resistance is also exceptional. Features: Chlorine Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption Uses: Appliances; Consumer Applications; Filters; Housings; Industrial Applications; Plumbing Parts; Pump Parts; Valves/Valve Parts 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-A-1145-DW-Polyphthalamide-PPA-45-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1145-DW-Polyphthalamide-PPA-45-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in <sup>3</sup>	ISO 1183
Filler Content	45 %	45 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	232 MPa	33600 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	15.1 GPa	2190 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Izod Impact, Notched (ISO)	7.80 kJ/m <sup>2</sup>	3.71 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact, Notched	0.990 J/cm <sup>2</sup>	4.71 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	302 °C	576 °F	Unannealed; Flatwise; ISO 75-2/A

Compliance Properties	Metric	English	Comments
NSF	Yes	Yes	NSF 61

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Middle Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Front Barrel Temperature	324 - 335 Â°C	615 - 635 Â°F	
Melt Temperature	321 - 343 Â°C	610 - 649 Â°F	
Mold Temperature	150 Â°C	302 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.030 - 0.060 %	0.030 - 0.060 %	Suggested Max

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China