

## Solvay Specialty Polymers Amodel® AT-1125 HS Polyphthalamide (PPA), 25% Glass Fiber (Conditioned)

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

### Material Notes:

Amodel® AT-1125 HS polyphthalamide (PPA) is a toughened, heat stabilized 25% glass reinforced resin, designed as a cost effective solution for applications requiring stiffness, good dimensional stability, chemical resistance and ductility. This resin has a high heat deflection temperature and a high flexural modulus, with greater tensile elongation than untoughened glass-reinforced PPA. Features: Good Chemical Resistance; Good Dimensional Stability; Heat Stabilized; High Heat Resistance; Impact Modified Uses: Appliance Components; Appliances; Automotive Applications; Automotive Electronics; Automotive Under the Hood; Bearings; Connectors; Fuel Lines; General Purpose; Housings; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement 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. Automotive Specifications ASTM D4000 PA123 G25; ASTM D4000 PPA0111 G25 KD160 KN075 LD002 PN080 YI250; ASTM D6779 PA123G25; ISO 1874 PA6T/6I/66-HI, MH, 12-080, GF25 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AT-1125-HS-Polyphthalamide-PPA-25-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-1125-HS-Polyphthalamide-PPA-25-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	Dry; ISO 1183
Filler Content	25 %	25 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	200 MPa	29000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	9.36 J	6.90 ft-lb	Instrumented; ASTM D3763

Thermal Properties	Metric	English	Comments
Melting Point	311 °C	592 °F	Peak; Dry; ASTM D3418

Thermal Properties	311 Å°C Metric	592 Å°F English	Per ISO 11357-3 Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Processing Temperature	79.4 Å°C	175 Å°F	Hopper
Rear Barrel Temperature	304 - 318 Å°C	579 - 604 Å°F	
Front Barrel Temperature	316 - 329 Å°C	601 - 624 Å°F	
Melt Temperature	321 - 343 Å°C	610 - 649 Å°F	
Mold Temperature	135 Å°C	275 Å°F	
Drying Temperature	121 Å°C	250 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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