

## Solvay Specialty Polymers Amodel® AT-1116 HS Polyphthalamide (PPA), 16% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 20% Glass Fiber Reinforced

### Material Notes:

Amodel® AT-1116 HS polyphthalamide (PPA) is a toughened, heat stabilized 16% 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: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Bearings; Bobbins; Connectors; General Purpose; Industrial Applications; Industrial Parts; 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 PPA0111 G17 KD124 KN055 PN046 YI238 LD002 Color: BK 324 Black; ASTM D4000 PPA0111 G17 KD124 KN055 PN046 YI238 LD002 Color: NT Natural; ASTM D6779 PA123G15 YI220; GM GMN6828 Color: BK 324 Black; GM GMN6828 Color: NT Natural; GM GMP.PPA.009 Color: BK 324 Black; GM GMP.PPA.009 Color: NT Natural; GM GMW15702-021991 Color: BK 324 Black; GM GMW15702-021991 Color: NT Natural; GM GMW16359P-PPA-GF15 Color: BK 324 Black; GM GMW16359P-PPA-GF15 Color: NT Natural; ISO 1874-PA 6T/6I/66-HI, MH, 12-060, GF16; YAZAKI YPES-25-02-305 Color: BK 324 Black; YAZAKI YPES-25-02-305 Color: NT Natural Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-AT-1116-HS-Polyphthalamide-PPA-16-Glass-Fiber-Conditioned.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-1116-HS-Polyphthalamide-PPA-16-Glass-Fiber-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	Dry; ISO 1183
Filler Content	16 %	16 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	131 MPa	19000 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Tensile Modulus	7.10 GPa	1030 ksi	ASTM D638
Flexural Strength	201 MPa	29200 psi	ASTM D790
Flexural Modulus	6.21 GPa	901 ksi	ASTM D790

Shear Strength Mechanical Properties	65.5 MPa Metric	9500 psi English	ASTM D732 Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D256
Dart Drop, Total Energy	7.59 J	5.60 ft-lb	Instrumented; ASTM D3763

Thermal Properties	Metric	English	Comments
Melting Point	310 Å°C	590 Å°F	Peak; Dry; ASTM D3418

Processing Properties	Metric	English	Comments
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	110 Å°C	230 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
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.**

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