

Solvay Specialty Polymers Amodel® AT-6115 HS Polyphthalamide (PPA), 15% Glass Fiber (Conditioned)

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

Material Notes:

Amodel® AT-6115 HS is a 15% glass-fiber reinforced, toughened grade of polyphthalamide (PPA) resin designed to possess more elongation than other 15% glass-fiber reinforced grades of Amodel resin. This grade was developed for automotive snap-fit electronic connectors. It offers high flow and short molding cycles. Features: Fast Molding Cycle; Good Mold Release; Heat Stabilized; High Elongation; High Flow; Impact Modified; Lubricated Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Connectors; General Purpose; Housings; Industrial Applications; Industrial Parts; Machine/Mechanical Parts; Metal Replacement; 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. Automotive Specifications ASTM D4000 PPA0123 G15 GB121 KD100 KN042 PN068 YI242; ASTM D6779 PA103G15; DELPHI M-4628 Color: BK324 Black; DELPHI M-4628 Color: NT Natural; FORD WSS-M4D943-A2 Color: BK324 Black; FORD WSS-M4D943-A2 Color: NT Natural; GM GMP.PPA.020 Color: BK-324 Black; GM GMP.PPA.020 Color: NT Natural; GM GMW16363P-PPA-GF15 Color: Black; GM GMW16363P-PPA-GF15 Color: Natural; ISO 1874 PA6T/66-HI, MH, 11-050, GF15 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-6115-HS-Polyphthalamide-PPA-15-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	Dry; ISO 1183
Filler Content	15 %	15 %	Glass Fiber

Mechanical Properties	Metric	English	Comments
Tensile Strength	95.8 MPa	13900 psi	ASTM D638
Elongation at Break	5.3 %	5.3 %	ASTM D638
Tensile Modulus	4.20 GPa	609 ksi	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Shear Strength	44.1 MPa	6400 psi	ASTM D732
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	305 Å°C Metric	581 Å°F English	Peak Dry; ASTM D3418 Comments
	305 Å°C	581 Å°F	Dry; ISO 11357-3

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 324 Å°C	601 - 615 Å°F	
Front Barrel Temperature	327 - 332 Å°C	621 - 630 Å°F	
Melt Temperature	321 - 335 Å°C	610 - 635 Å°F	
Mold Temperature	65.6 - 93.3 Å°C	150 - 200 Å°F	
Drying Temperature	110 Å°C @Time 14400 sec	230 Å°F @Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
	Lubricant	
	Mold Release	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Processing Technique	Water-Heated Mold Injection Molding	
RoHS Compliance	RoHS Compliant	

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