

Solvay Specialty Polymers Amodel® AT-6130 HS Polyphthalamide (PPA), 30% Glass Fiber (Dry)

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

Material Notes:

Amodel® AT-6130 HS is a 30% glass-reinforced, toughened polyphthalamide (PPA) resin that has more elongation than other 30% glass-reinforced grades of Amodel® resin. This grade was developed for automotive snap-fit electronic connectors. It offers high flow and short molding cycles. The processing window is relatively broad and mold temperatures as low as 150°F (65°C) can be used. Features: Good Chemical Resistance; Good Flow; Good Wear Resistance; Heat Stabilized; High Heat Resistance; High Strength; Hot Water Moldability; Impact Modified; Low Friction; Lubricated. Uses: 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; 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 G30 KD150 KN080 PM095 PN095 YI255 LD002 Color: BK-324 Black; ASTM D4000 PPA0123 G30 KD150 KN080 PM095 PN095 YI255 LD002 Color: NT Natural; ASTM D6779 PA103G30; DELPHI MS 5218 Color: BK-324 Black; DELPHI MS 5218 Color: NT Natural; GM GMP.PPA.017 Color: BK-324 Black; GM GMP.PPA.017 Color: NT Natural; GM GMW16363P-PPA-GF30 Color: Black; GM GMW16363P-PPA-GF30 Color: Natural; ISO 1874-PA 6T/66-HI, MH, 11-090, GF30. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-6130-HS-Polyphthalamide-PPA-30-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	0.15 % @Time 86400 sec	0.15 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	167 MPa	24200 psi	ASTM D638
	170 MPa	24700 psi	ISO 527-2
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.3 %	3.3 %	ISO 527-2

Mechanical Properties	Metric ^{Pa}	English ^l	Comments
Flexural Strength	225 MPa	32600 psi	ISO 178
Flexural Yield Strength	236 MPa	34200 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ISO 178
	7.86 GPa	1140 ksi	ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.0 J/cm	26.2 ft-lb/in	ASTM D256
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	306 Å°C	583 Å°F	ASTM D3418
	310 Å°C	590 Å°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	298 Å°C	568 Å°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	276 Å°C	529 Å°F	Unannealed; ISO 75-2/A

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	121 Å°C	250 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.15 %	<= 0.15 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
	Impact Modifier	
	Lubricant	
	Mold Release	

Availability Descriptive Properties	Africa & Middle East Value	Comments
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Water-Heated Mold Injection Molding	
RoHS Compliance	RoHS Compliant	

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