

Solvay Specialty Polymers Amodel® A-6135 HN Polyphthalamide (PPA), 35% Glass Fiber (Conditioned)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

Amodel® A-6135 HN polyphthalamide (PPA) is a 35% glass reinforced resin that is heat stabilized, lubricated and hot-water moldable.

Key properties of the resin are high heat resistance, high strength and stiffness over a broad temperature range. It also exhibits low moisture absorption, excellent chemical resistance and excellent electrical properties. Features: Good Chemical Resistance; Good Creep Resistance; Good Flow; Good Stiffness; Heat Stabilized; High Heat Resistance; High Stiffness; High Strength; Hot Water Moldability; Low Moisture Absorption Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Connectors; Electrical Housing;

Electrical/Electronic Applications; General Purpose; Housings; Industrial Applications; Industrial Parts; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools; 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 D6779 PA101G35; GM GMP.PPA.021 Color: Black; GM GMP.PPA.021 Color: Natural; GM GMW16362P-PPA-GF35 Color: Black Information provided by Solvay Specialty Polymers.

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Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-6135-HN-Polyphthalamide-PPA-35-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	Dry; ISO 1183
Filler Content	35 %	35 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	Dry
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	176 MPa	25500 psi	ASTM D638
Elongation at Break	2.1 %	2.1 %	ASTM D638
Tensile Modulus	12.2 GPa	1770 ksi	ASTM D638
Flexural Strength	249 MPa	36100 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Shear Strength	73.8 MPa	10700 psi	ASTM D732
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	310 Â°C	590 Â°F	Dry; ISO 11357-3
	310 Â°C	590 Â°F	Dry; DSC

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	316 - 321 Â°C	601 - 610 Â°F	
Front Barrel Temperature	327 - 332 Â°C	621 - 630 Â°F	
Melt Temperature	321 - 335 Â°C	610 - 635 Â°F	
Mold Temperature	65.6 - 93.3 Â°C	150 - 200 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.045 %	<= 0.045 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Water-Heated Mold Injection Molding	

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