

Solvay Specialty Polymers Amodel® A-1933 HSL Polyphthalamide (PPA), 33% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

Material Notes:

Amodel® A-1933 HSL is a 33% glass reinforced grade of polyphthalamide (PPA) resin. This grade was developed specifically for improved performance in a 50/50 ethylene glycol and water environment. This material was tested using the aggressive automotive coolant system, ethylene glycol with organic acid stabilizer, at 130°C (266°F). It exceeds the performance required by the automotive industry for polymeric materials exposed to high-temperature antifreeze solutions. Features: Antifreeze Resistant; Glycol Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Strength; Lubricated Uses: Automotive Applications; Automotive Under the Hood; Housings; 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. Additional Properties: Retention of Flexural Modulus - ISO 178 (130°C): 76 %; Retention of Flexural Strength - ISO 178 (130°C): 71 %; Retention of Tensile Modulus - ISO 527-2 (130°C): 75 %; Retention of Tensile Strength - ISO 527-2 (130°C): 69 % Automotive Specifications ASTM D6779 PA131G35 Color: BK328 Black; CHRYSLER MS-DB-478 CPN4771 Color: BK328 Black; GM GMP.PPA.019 Color: BK328 Black; GM GMW16360P-PPA-GF35 Color: BK328 Black; ISO 1874-PA6T/6I, MH, 11-120, GF33 Color: BK-328 Black; ISO 1874-PA6T/6I, MH, 11-120, GF33 Color: NT-07 Natural Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1933-HSL-Polyphthalamide-PPA-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Water Absorption	0.19 % @Time 86400 sec	0.19 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4
	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4
	0.010 cm/cm	0.010 in/in	Type D2; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	195 MPa	28300 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	11.5 GPa	1670 ksi	ISO 527-2

Mechanical Properties	Metric	English	Comments
Flexural Strength	280 MPa	40500 psi	ISO 178
Flexural Modulus	10.3 GPa	1490 ksi	ISO 178
Izod Impact, Notched (ISO)	8.10 kJ/mÂ²	3.85 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Charpy Impact, Notched	0.820 J/cmÂ²	3.90 ft-lb/inÂ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	323 Â°C	613 Â°F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	295 Â°C	563 Â°F	Unannealed; ISO 75-2/A

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	313 - 330 Â°C	595 - 626 Â°F	
Front Barrel Temperature	326 - 339 Â°C	619 - 642 Â°F	
Melt Temperature	331 - 352 Â°C	628 - 666 Â°F	
Mold Temperature	150 Â°C	302 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	
	Lubricant	
	Mold Release	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	

Processing Technique Descriptive Properties	Injection Molding Value	Comments
RoHS Compliance	RoHS Compliant	

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