

Solvay Specialty Polymers Amodel® AS-1935 HS Polyphthalamide (PPA), 35% Glass Fiber

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

Material Notes:

Amodel® AS-1935 HS is a 35% glass reinforced grade of polyphthalamide (PPA) resin developed specifically for improved performance in a 50/50 ethylene glycol and water environment. This material exceeds the performance required by the automotive industry for polymeric materials exposed to antifreeze at 226°F (108°C), even when tested at 275°F (135°C). Features: Antifreeze Resistant; Glycol Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Heat Stabilized; High Heat Resistance; High Strength Uses: Automotive Applications; Automotive Under the Hood; Housings; Industrial Applications; Industrial Parts; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools; Thick-walled Parts; 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 HYUNDAI MS211-19 AS-1935 HS Color: BK 238 Black Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AS-1935-HS-Polyphthalamide-PPA-35-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Filler Content	35 %	35 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	ASTM D638
	210 MPa	30500 psi	ISO 527-2
Elongation at Break	2.2 %	2.2 %	ISO 527-2
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	12.5 GPa	1810 ksi	ASTM D638
	12.6 GPa	1830 ksi	1 mm/min, Type 1A; ISO 527-2
Flexural Strength	275 MPa	39900 psi	ASTM D790
	300 MPa	43500 psi	ISO 178
Flexural Modulus			ASTM D790

Mechanical Properties	11.3 GPa Metric	1640 ksi English	Comments
	11.5 GPa	1670 ksi	ISO 178
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	8.50 kJ/mÂ²	4.04 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Charpy Impact Unnotched	6.60 J/cmÂ²	31.4 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	0.800 J/cmÂ²	3.81 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)	290 Â°C	554 Â°F	Unannealed; Flatwise; ISO 75-2/A

Processing Properties	Metric	English	Comments
Processing Temperature	79.4 Â°C	175 Â°F	Hopper
Rear Barrel Temperature	313 - 330 Â°C	595 - 626 Â°F	
Front Barrel Temperature	326 - 339 Â°C	619 - 642 Â°F	
Melt Temperature	330 - 350 Â°C	626 - 662 Â°F	
Mold Temperature	150 Â°C	302 Â°F	
Drying Temperature	121 Â°C @Time 14400 sec	250 Â°F @Time 4.00 hour	
Moisture Content	<= 0.10 %	<= 0.10 %	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	

Descriptive Properties	Value on Molding	Comments
RoHS Compliance	RoHS Compliant	

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