Solvay Specialty Polymers AmodelÂ® AS-1933 HS Polyphthalamide (PPA), 33% Glass Fiber

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

Material Notes:

AmodelÂ® AS-1933 HS is a 33% 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 226Â°F (108Â°C), even when tested at 275Â°F (135Â°C).Features: Antifreeze Resistant; Glycol Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Heat Stabilized; High Heat Resistance; High StrengthUses: Automotive Applications; Automotive Under the Hood; Housings; Industrial Applications; Industrial Parts; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools; Thick-walled Parts; Valves/Valve PartsInjection Molding Notes: AmodelÂ® 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 50Â°C (122Â°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 AmodelÂ® resins be dried prior to molding.Automotive Specifications ASTM D4000 PA121 G35 Color: BK324 Black; ASTM D6779 PA121G35; BMW GS 93016 Color: BK 324 Black; BOSCH N28 BN05-OX1 BN0510-GF45-3Gsw01SO Color: BK324 Black; CHRYSLER MS-DB-478 CPN4116 Color: Black; FORD WSS-M4D861-A3 Color: BK324 Black; GM GMP.PPA.019 Color: Black; GM GMW16360P-PPA-GF35 Color: BK-324 Black; ISO 1874 PA6T/6I/66, MH, 12-120, GF33 Color: BK324 Black; PSA Peugeot-CitroÃ«n SPA X62 4203; VALEO PDT NVB 10 057 Color: BK324 BlackInformation provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AS-1933-HS-Polyphthalamide-PPA-33-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/inÂ³	ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Water Absorption	0.21 % @Time 86400 sec	0.21 % @Time 24.0 hour	ISO 62
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	75.8 MPa	11000 psi	50 mm/min; ASTM D638
	212 MPa	30700 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
	2.5 %	2.5 %	ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	ASTM D638

Mechanical Properties	Metric	English	Comments
	12.6 GPa	1830 ksi	ISO 527-2
Flexural Strength	309 MPa	44800 psi	ISO 178
Flexural Yield Strength	313 MPa	45400 psi	ASTM D790
Flexural Modulus	10.6 GPa	1540 ksi	ISO 178
	10.8 GPa	1570 ksi	ASTM D790
Izod Impact, Notched (ISO)	9.50 kJ/mÂ²	4.52 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Charpy Impact Unnotched	7.60 J/cmÂ²	36.2 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	312 Â°C	594 Â°F	ISO 11357-3
Deflection Temperature at 1.8 MPa (264 psi)	277 Â°C	531 Â°F	Unannealed; ASTM D648
	278 Â°C	532 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	304 - 318 Â°C	579 - 604 Â°F	
Front Barrel Temperature	316 - 329 Â°C	601 - 624 Â°F	
Melt Temperature	321 - 343 Â°C	610 - 649 Â°F	
Mold Temperature	135 Â°C	275 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	

Descriptive Properties	Value	Comments
	Latin America North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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