Solvay Specialty Polymers AmodelÂ® AT-1125 HS Polyphthalamide (PPA), 25% Glass Fiber (Dry)

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

Material Notes:

AmodelÂ® AT-1125 HS polyphthalamide (PPA) is a toughened, heat stabilized 25% glass reinforced resin, designed as a cost effective solution for applications requiring stiffness, good dimensional stability, chemical resistance and ductility. This resin has a high heat deflection temperature and a high flexural modulus, with greater tensile elongation than untoughened glass-reinforced PPA.Features: Good Chemical Resistance; Good Dimensional Stability; Heat Stabilized; High Heat Resistance; Impact ModifiedUses: Appliance Components; Appliances; 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 ReplacementInjection 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 PA123 G25; ASTM D4000 PPA0111 G25 KD160 KN075 LD002 PN080 YI250; ASTM D6779 PA123G25; ISO 1874 PA6T/6I/66-HI, MH, 12-080, GF25Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-AT-1125-HS-Polyphthalamide-PPA-25-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/inÂ³	ISO 1183
Filler Content	25 %	25 %	Glass Fiber
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 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	174 MPa	25200 psi	ASTM D638
	190 MPa	27600 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
	3.2 %	3.2 %	ASTM D638
Tensile Modulus	8.48 GPa	1230 ksi	ASTM D638
	8.89 GPa	1290 ksi	ISO 527-2

Mechanical Properties	Metric	English	Comments
Flexural Strength	240 MPa	34800 psi	ISO 178
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
	7.79 GPa	1130 ksi	ISO 178
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	8.80 kJ/mÂ²	4.19 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Charpy Impact, Notched	0.880 J/cmÂ²	4.19 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
Dart Drop, Total Energy	13.8 J	10.2 ft-lb	Instrumented; ASTM D3763

Thermal Properties	Metric	English	Comments
Melting Point	311 Â°C	592 Â°F	ASTM D3418
	311 Â°C	592 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	279 Â°C	534 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	235 Â°C	455 Â°F	Unannealed; ASTM D648
	280 Â°C	536 Â°F	Unannealed; 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	

Impact Modifier

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China