Solvay Specialty Polymers AmodelÂ® A-4133 HH Polyphthalamide (PPA), 33% Glass Fiber (Conditioned)

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

Material Notes:

AmodelÂ® A-4133 HH is a 33% glass fiber reinforced heat stabilized grade of polyphthalamide (PPA) that has been designed to provide outstanding property retention to thermal oxidative degradation at temperatures of 230Â°C. Other features are fast cycling and hot water moldability. This product is particularly suitable to air induction applications within downsized automotive engines such as air induction charge air cooling and exhaust gas recirculation. Features: Fast Molding Cycle; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; Heat Stabilized; High Heat Resistance; High Strength; Hot Water Moldability; Laser Weldable; Low Moisture Absorption; LubricatedUses: Automotive Applications; Automotive Under the Hood; 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.Information provided by Solvay Specialty Polymers.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-4133-HH-Polyphthalamide-PPA-33-Glass-Fiber-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/inÂ³	Dry; ISO 1183
Filler Content	33 %	33 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	Dry
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	Dry; ASTM D955

Mechanical Properties	Metric	English	Comments
Compressive Strength	172 MPa	24900 psi	ASTM D695
Shear Strength	75.8 MPa	11000 psi	ASTM D732

Thermal Properties	Metric	English	Comments
Melting Point	327 Â°C	621 Â°F	Dry; ISO 11357-3
	327 Â°C	621 Â°F	Dry; DSC

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Dielectric Constant	3.4	3.4	ASTM D150

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3 @Frequency 60.0 Hz	4.3 @Frequency 60.0 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 1.60 mm	508 kV/in @Thickness 0.0630 in	ASTM D149
Dissipation Factor	0.019 @Frequency 1.00e+6 Hz	0.019 @Frequency 1.00e+6 Hz	ASTM D150
	0.020 @Frequency 60.0 Hz	0.020 @Frequency 60.0 Hz	ASTM D150
Comparative Tracking Index	600 V	600 V	UL 746
High Voltage Arc-Tracking Rate, HVTR	18.0 mm/min	0.709 in/min	UL 746

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	318 - 324 Â°C	604 - 615 Â°F	
Front Barrel Temperature	327 - 332 Â°C	621 - 630 Â°F	
Melt Temperature	329 - 343 Â°C	624 - 649 Â°F	
Mold Temperature	65.6 - 93.3 Â°C	150 - 200 Â°F	
Drying Temperature	120 Â°C @Time 14400 sec	248 Â°F @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	

Descriptive Properties	Value	Comments
Color	Black	
Form	Pellets	
Processing Technique	Water-Heated Mold Injection Molding	

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