

Solvay Specialty Polymers Amodel® A-1625 HS Polyphthalamide (PPA), 25% GlassCarbon Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Amodel® A-1625 HS is a 25% carbon and glass-reinforced, heat-stabilized grade of polyphthalamide (PPA). It is formulated for applications requiring the dissipation of static charge. This material is well suited for fuel systems applications requiring low permeation, low swell, and high thermal resistance. It can also be used for components of electrical/electronic systems requiring high strength and stiffness, as well as static charge dissipation. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Stiffness; High Heat Resistance; High Stiffness; High Temperature Strength; Low Moisture Absorption Uses: Automotive Applications; Automotive Electronics; Automotive Under the Hood; Connectors; Electrical/Electronic Applications; Fuel Lines 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 ASTM D4000 PPA0110 G12 KB140 LB001 PA049 YA225 ZE01 ZK02 Color: BK-324 Black; GM GMP.PPA.011 Color: Black; GM GMW16797P-PPA-GF13CF12 Color: Black; IMDS ID 25622745 Color: Black Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-A-1625-HS-Polyphthalamide-PPA-25-GlassCarbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Filler Content	25 %	25 %	GlassCarbon Fiber
Water Absorption	0.25 % @Time 86400 sec	0.25 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength	179 MPa	26000 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	13.0 GPa	1890 ksi	ISO 527-2
Flexural Strength	275 MPa	39900 psi	ISO 178
Flexural Modulus	10.9 GPa	1580 ksi	ISO 178
Izod Impact, Notched (ISO)	9.20 kJ/m ²	4.38 ft-lb/in ²	ISO 180

Mechanical Properties (ISO)	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	285 Å°C	545 Å°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	275 Å°C	527 Å°F	Unannealed; ISO 75-2/A

Electrical Properties	Metric	English	Comments
Volume Resistivity	2400 ohm-cm	2400 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	310 Å°C	590 Å°F	
Front Barrel Temperature	320 Å°C	608 Å°F	
Melt Temperature	320 - 330 Å°C	608 - 626 Å°F	
Mold Temperature	135 Å°C	275 Å°F	
Drying Temperature	120 Å°C	248 Å°F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	<= 0.060 %	<= 0.060 %	

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

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