Amodel® A-1625 HS

Polyphthalamide

Solvay Specialty Polymers

Message:

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.
Amodel® A-1625 HS provides low moisture absorption, excellent dimensional stability and has creep resistance superior to other electrostatic dissipative materials.
Black: A-1625 HS BK 324

General Information	
Filler / Reinforcement	Glass and carbon fiber reinforced materials, 25% filler by weight
Additive	heat stabilizer
Features	Good dimensional stability Low hygroscopicity Rigidity, high Rigid, good High temperature strength Good creep resistance Good chemical resistance Heat resistance, high
Uses	Electrical/Electronic Applications Connector Parts under the hood of a car Automotive Electronics Application in Automobile Field Fuel line
RoHS Compliance	Contact manufacturer
Appearance	Black
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ISO 1183/A
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.60	%	ISO 294-4
Flow direction	0.40	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2

Tensile Strength	179	MPa	ASTM D638
Tensile Strain (Yield)	2.0	%	ISO 527-2
Flexural Modulus	10900	MPa	ISO 178
Flexural Stress	275	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	9.2	kJ/m^2	ISO 180
Unnotched Izod Impact Strength	50	kJ/m^2	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	285	°C	ISO 75-2/B
1.8 MPa, not annealed	275	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity [1]	2.4E+3	ohms·cm	SAE J1645
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.060	%	
Rear Temperature	310	°C	
Front Temperature	320	°C	
Processing (Melt) Temp	320 - 330	°C	
Mold Temperature	135	°C	

Injection instructions

Storage:
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 following the recommendations found in this datasheet and/or in the Amodel® processing guide.

NOTE

1. 50V

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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WECHAT