

Amodel® A-1625 HS

polyphthalamide

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

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Glass\Carbon Fiber Reinforcement, 25% Filler by Weight		
Additive	• Heat Stabilizer		
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
RoHS Compliance	• Contact Manufacturer		
Automotive Specifications	• ASTM D4000 PPA0110 G12 KB140 LB001 PA049 YA225 ZE01 ZK02 Color: BK-324 Black		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Typical Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183/A
Molding Shrinkage			ISO 294-4
Across Flow	0.60	%	
Flow	0.40	%	
Water Absorption (23°C, 24 hr)	0.25	%	ISO 62
Mechanical	Typical 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 Strength	275	MPa	ISO 178
Impact	Typical Value	Unit	Test Method
Notched Izod Impact Strength	9.2	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	50	kJ/m ²	ISO 180
Thermal	Typical Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	285	°C	ISO 75-2/B
1.8 MPa, Unannealed	275	°C	ISO 75-2/A

Electrical	Typical Value	Unit	Test Method
Volume Resistivity ¹	2.4E+3	ohm·cm	SAE J1645

Injection	Typical 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 to 330	°C
Mold Temperature	135	°C

Notes

Typical properties: these are not to be construed as specifications.

¹ 50V

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For assistance with an emergency involving this product, such as spill, leak, fire or explosion, call day or night:

Emergency Health Information

USA +1.800.621.4590

International +1.770.772.8577

Emergency Spill Information

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+1.703.527.3887 (CHEMTREC)

Europe +44.208.762.8322 (CARECHEM)

China +86.10.5100.3039

All other Asian countries +65.633.44.177

For additional product information, technical assistance and Material Safety Data Sheets (MSDS), call:

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Japan +81.3.5425.4300

China & Southeast Asia +86.21.5080.5080

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