

Amodel® A-1625 HS

polyphthalamide

Amodel® A-1625 HS is a 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

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Revised: 3/7/2018

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Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific Europe	Latin AmericaNorth America	
Filler / Reinforcement	Glass\Carbon Fiber		
Additive	Heat Stabilizer		
Features	Chemical ResistantCreep ResistantGood Dimensional StabilityGood Stiffness	High Heat ResistanHigh StiffnessHigh Temperature SLow Moisture Abso	Strength
Uses	Automotive ApplicationsAutomotive ElectronicsAutomotive Under the Hood	ConnectorsElectrical/ElectronicFuel Lines	: Applications
RoHS Compliance	Contact Manufacturer		
Automotive Specifications	 ASTM D4000 PPA0110 G12 KB14 BK-324 Black GM GMP.PPA.011 Color: Black GM GMW16797P-PPA-GF13CF12 IMDS ID 25622745 Color: Black 		01 ZK02 Color:
Appearance	Black		
Forms	• Pellets		
Processing Method	Injection Molding		
Physical	Тур	ical Value Unit	Test method
Density		1.32 g/cm³	ISO 1183/A
Molding Shrinkage			ISO 294-4
Across Flow	0.60 %		
Flow	0.40 %		
Water Absorption (24 hr, 50.8 mm)		0.32 %	ASTM D570
Mechanical	Typ	. 1271 - 11.5	Toot mothod
		ical Value Unit	<u>lest metriod</u>
Tensile Modulus	тур	ical Value Unit	rest method
Tensile Modulus	тур	15200 MPa	
	тур		ASTM D638 ISO 527-2

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Mechanical	Typical Value	Unit	Test method
Tensile Elongation			
Break	2.5	%	ASTM D638
Break	2.4	%	ISO 527-2
Flexural Modulus	13500	MPa	ISO 178
Flexural Stress	300	MPa	ISO 178
Impact	Typical Value	Unit	Test method
Notched Izod Impact			
	120	J/m	ASTM D256
-40°C	8.0	kJ/m²	ISO 180
23°C	11	kJ/m²	ISO 180
Unnotched Izod Impact Strength			ISO 180
-40°C	50	kJ/m²	
23°C	50	kJ/m²	
Thermal	Typical Value	Unit	Test method
Heat Deflection Temperature			
0.45 MPa, Unannealed	285	°C	ISO 75-2/B
1.8 MPa, Unannealed	270	°C	ASTM D648
1.8 MPa, Unannealed	275	°C	ISO 75-2/A
Electrical	Typical Value	Unit	Test method
Volume Resistivity ¹	2.4E+3	ohms·cm	SAE J1645

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Injection	Typical Value Unit	
Drying Temperature	120 °C	
Drying Time	4.0 hr	
Suggested Max Moisture	0.030 to 0.060 %	
Rear Temperature	310 °C	
Front Temperature	320 °C	
Processing (Melt) Temp	320 to 330 °C	
Mold Temperature	135 °C	

Injection Notes

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.

Notes

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

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SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa SpecialtyPolymers.Americas@solvay.com | Americas SpecialtyPolymers.Asia@solvay.com | Asia and Australia

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