

Solvay Specialty Polymers Amodel® A-1625 HS Polyphthalamide (PPA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Carbon Fiber Filled

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. 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 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-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183/A
Filler Content	25 %	25 %	GlassCarbon Fiber Reinforcement
Water Absorption	0.25 % @Temperature 23.0 °C, Time 86400 sec	0.25 % @Temperature 73.4 °F, 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
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180

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

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	2400 ohm-cm	2400 ohm-cm	50V; SAE J1645

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

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Appearance	Black	
Automotive Specifications	ASTM D4000 PPA0110 G12 KB140 LB001 PA049 YA225 ZE01 ZK02 Color: BK-324 Black	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Stiffness	
	High Heat Resistance	
	High Stiffness	
	High Temperature Strength	

Descriptive Properties	Low Moisture Absorption Value	Comments
Forms	Pellets	
Generic	PPA	
Processing Method	Injection Molding	
Uses	Automotive Applications	
	Automotive Electronics	
	Automotive Under the Hood	
	Connectors	
	Electrical/Electronic Applications	
	Fuel Lines	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China