

Amodel® A-8950 HS

polyphthalamide

Amodel® A-8950 HS is a 50% glass-fiber-reinforced, heat-stabilized polyphthalamide (PPA) with a high heat deflection temperature and very high tensile strength. Excellent creep resistance, low moisture absorption and glycol resistance are also characteristic of this resin.

• Black: A-8950 HS BK 328

General

Revised: 1/5/2015

Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific Europe		atin America Iorth America	
Filler / Reinforcement	Glass Fiber, 50% Filler by Weig	ht		
Features	 Chemical Resistant Creep Resistant Good Dimensional Stability Good Glycol Resistance Good Stiffness 	•	ligh Heat Resistance ligh Stiffness ligh Strength ligh Temperature Strength ow Moisture Absorption	
Uses	AppliancesAutomotive ApplicationsAutomotive ElectronicsConnectorsConsumer Applications	• Ir • N	lousings ndustrial Applications flachine/Mechanical Parts fletal Replacement	
Appearance	• Black			
Forms	• Pellets			
Processing Method	Injection Molding			
Physical		Typical Value	Unit	Test method
Density		1.65	g/cm³	ISO 1183/A
Molding Shrinkage				ASTM D955
Flow		0.20	%	
Across Flow		0.70	%	
Water Absorption				ASTM D570
24 hr		0.15	%	
24 hr, 23°C, 50%		0.060	%	
Mechanical		Typical Value	Unit	Test method
Tensile Modulus (23°C)		19000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)		275	MPa	ISO 527-2
Tensile Strain (Break, 23°C)		2.1	%	ISO 527-2
Impact		Typical Value	Unit	Test method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C		11	kJ/m²	
23°C		11	kJ/m²	

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Impact	Typical Value Unit	Test method
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	75 kJ/m²	
23°C	90 kJ/m²	
Thermal	Typical Value Unit	Test method
Heat Deflection Temperature		
0.45 MPa, Unannealed	310 °C	ISO 75-2/Bf
1.8 MPa, Unannealed	295 °C	ISO 75-2/Af
Melting Temperature	325 °C	ISO 11357-3
Injection	Typical Value Unit	
Drying Temperature	120 °C	
Drying Time	4.0 hr	
Suggested Max Moisture	0.030 to 0.060 %	
Rear Temperature	316 to 329 °C	
Middle Temperature	316 to 329 °C	
Front Temperature	324 to 335 °C	
Processing (Melt) Temp	321 to 343 °C	
Mold Temperature	150 °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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