

Amodel® A-8930 HS

polyphthalamide

Amodel® A-8930 HS is a 30% glass-fiber-reinforced, heat-stabilized polyphthalamide (PPA) with a high heat deflection temperature and very high tensile strength. Excellent creep resistance and low

moisture absorption are also characteristic of this resin.

• Black: A-8930 HS BK 328

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Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific Europe	 Latin America North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	Heat Stabilizer		
Features	 Chemical Resistant Creep Resistant Good Dimensional Stability Good Stiffness High Heat Resistance 	 High Stiffness High Strength High Temperature Strength Low Moisture Absorption	
Uses	AppliancesAutomotive ApplicationsAutomotive ElectronicsConnectorsConsumer Applications	 Housings Industrial Applications Machine/Mechanical Parts Metal Replacement	
Appearance	• Black		
Forms	• Pellets		
Processing Method	Injection Molding		
Physical	Typical Value Unit		Test method
Density		1.47 g/cm³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow		0.45 %	
Across Flow	0.89 %		
Water Absorption (24 hr)	0.21 %		ASTM D570
Mechanical	Туріса	l Value Unit	Test method
Tensile Modulus (23°C)	12100 MPa		ISO 527-1
Tensile Stress (Break, 23°C)		194 MPa	ISO 527-2
Tensile Strain (Break, 23°C)		1.8 %	ISO 527-2
Flexural Modulus (23°C)		11400 MPa	ISO 178
Flexural Strain at Break (23°C)		2.6 %	ISO 178
Flexural Strength (Break, 23°C)		288 MPa	ISO 178

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Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.5	kJ/m²	
23°C	7.9	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	46	kJ/m²	
23°C	48	kJ/m²	
Notched Izod Impact Strength (23°C)	8.1	kJ/m²	ISO 180/A
Unnotched Izod Impact Strength			ISO 180/A
-30°C	37	kJ/m²	
23°C	43	kJ/m²	
Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	311	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	290	°C	ISO 75-2/Af
Melting Temperature	323	°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	310 to 330	°C	
Middle Temperature	315 to 330	°C	
Front Temperature	325 to 335	°C	
Processing (Melt) Temp	320 to 345	°C	
Mold Temperature	150	°C	

Injection Notes

Mold Temperature:

• Higher tool temperatures might be required for thin wall sections

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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