Amodel® A-8950 HS

Polyphthalamide

Solvay Specialty Polymers

Message:

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 Information	
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight
Features	Good dimensional stability Low hygroscopicity Rigidity, high Rigid, good High strength High temperature strength Good creep resistance Good chemical resistance Heat resistance, high Ethylene glycol resistance
Uses	Electrical appliances Industrial application Machine/mechanical parts Metal substitution Connector Automotive Electronics Application in Automobile Field Shell Consumer goods application field
Appearance	Black
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm³	ISO 1183/A
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.70	%	ASTM D955
Water Absorption			ASTM D570
24 hr	0.15	%	ASTM D570

23°C, 24 hr, 50%	0.060	%	ASTM D570
Mechanical	**Nominal 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	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	11	kJ/m^2	ISO 179/1eA
23°C	11	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	75	kJ/m^2	ISO 179/1eU
23°C	90	kJ/m^2	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	310	°C	ISO 75-2/Bf
1.8 MPa, not annealed	295	°C	ISO 75-2/Af
Melting Temperature	325	°C	ISO 11357-3
Injection	**Nominal Value**	**Unit**	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030 - 0.060	%	
Rear Temperature	316 - 329	°C	
Middle Temperature	316 - 329	°C	
Front Temperature	324 - 335	°C	
Processing (Melt) Temp	321 - 343	°C	
Mold Temperature	150	°C	
Injection instructions			

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.

Recommended distributors for this material

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