

Amodel® AS-1935 HS

Polyphthalamide
Solvay Specialty Polymers

Message:

Amodel® AS-1935 HS is a 35% glass reinforced grade of polyphthalamide (PPA) resin developed specifically for improved performance in a 50/50 ethylene glycol and water environment. This material exceeds the performance required by the automotive industry for polymeric materials exposed to antifreeze at 226°F (108°C), even when tested at 275°F (135°C).
Former PXM-12091
Black: AS-1935 HS BK 328

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigid, good		
	High strength		
	frost resistance		
	Good creep resistance		
	Good chemical resistance		
	Heat resistance, high		
	Ethylene glycol resistance		
	Thermal Stability		
Uses	Power/other tools		
	Valve/valve components		
	Industrial components		
	Industrial application		
	Thick wall fittings (parts)		
	Machine/mechanical parts		
	Metal substitution		
	Parts under the hood of a car		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
	Black		
	Particle		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183/A
Molding Shrinkage			ASTM D955

Flow	0.20	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	12500	MPa	ASTM D638
--	12600	MPa	ISO 527-2/1A/1
Tensile Strength			
Fracture	205	MPa	ASTM D638
Fracture	210	MPa	ISO 527-2
Tensile Elongation (Break)	2.2	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	11300	MPa	ASTM D790
--	11500	MPa	ISO 178
Flexural Stress			
--	300	MPa	ISO 178
Fracture	275	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	66	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
--	65	J/m	ASTM D256
--	8.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/Af
Melting Temperature	323	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Hopper Temperature	79.4	°C	
Rear Temperature	313 - 330	°C	
Front Temperature	326 - 339	°C	
Processing (Melt) Temp	330 - 350	°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.

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