Amodel® DW-1140

Polyphthalamide

Solvay Specialty Polymers

Message:

Amodel® DW-1140 is a 40% glass-fiber-reinforced resin designed for high strength and stiffness and improved hydrolytic stability. This material has low moisture absorption and a low coefficient of thermal expansion, which means excellent dimensional stability. Creep resistance is also exceptional. This grade has been approved for use with potable water in the United States, France, Germany, and the United Kingdom.

Black: DW-1140 BK938

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Features	Good dimensional stability			
	Low hygroscopicity			
	Rigidity, high			
	High strength			
	High temperature strength			
	Good creep resistance			
	Good chemical resistance			
	Chlorine resistance			
Uses	Pump parts			
	Electrical appliances			
	Valve/valve components			
	Industrial application			
	Pipe components			
	Filter			
	Shell			
	Consumer goods applicatio	n field		
RoHS Compliance	RoHS compliance			
Appearance	Black			
	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Density	1.55	g/cm³	ISO 1183/A	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	14000	МРа	ISO 527-2	
Tensile Stress (Break, 23°C)	230	МРа	ISO 527-2	
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2	

Flexural Modulus (23°C)	14000	MPa	ISO 178
Flexural Strength (Break, 23°C)	330	MPa	ISO 178
Flexural Strain at Break (23°C)	2.5	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.3	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	63	kJ/m²	ISO 179
Notched Izod Impact	9.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	300	°C	ISO 75-2/Af
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.030 - 0.060	%	
Rear Temperature	315 - 330	°C	
Middle Temperature	320 - 340	°C	
Front Temperature	325 - 345	°C	
Processing (Melt) Temp	340 - 360	°C	
Mold Temperature	160	°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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Recommended distributors for this material

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