Amodel® DW-1150

Polyphthalamide

Solvay Specialty Polymers

Message:

Amodel® DW-1150 is a 50% 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-1150 BK938

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 50% 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 application field
RoHS Compliance	RoHS compliance
Appearance	Black Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm³	ISO 1183/A

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	260	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.9	%	ISO 527-2

Flexural Modulus (23°C)	18500	MPa	ISO 178
Flexural Strength (Break, 23°C)	400	MPa	ISO 178
Flexural Strain at Break (23°C)	2.3	%	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	12	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength	80	kJ/m^2	ISO 179
Notched Izod Impact	12	kJ/m^2	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.

Recommended distributors for this material

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