

Ixef® DW-1022

Polyarylamide
Solvay Specialty Polymers

Message:

Ixef® DW-1022 is a 50% glass-fiber reinforced, general purpose polyarylamide compound that exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance.
Ixef® DW-1022 is approved for use in potable water in France, Germany, the United States and the United Kingdom.
Black: DW-1022 BK 000
Natural: DW-1022 NT 000

General Information	
UL YellowCard	E95746-101887929
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight
Features	Super rigidity
	Good dimensional stability
	Excellent appearance
	Low hygroscopicity
	High strength
	Good disinfection
	Good creep resistance
	High liquidity
	Good chemical resistance
	General
Uses	Electrical appliances
	Highlight applications
	Medical equipment
	Potable water application
Agency Ratings	ACS not rated
	DVGW W270
	FDA 21 CFR 176.170, Table 2, Status C
	FDA 21 CFR 176.170, Table 2, Status B
	FDA 21 CFR 176.170, Table 2, Status D
	FDA 21 CFR 176.170, Table 2, Status G
	FDA 21 CFR 176.170, Table 2, Status F
	FDA 21 CFR 176.170, Table 2, Status H
	KTW Not Rated 3
	NSF 61 4
	WRAS not rated at 85°C
	Europe No 10/2011

RoHS Compliance		RoHS compliance		
Appearance		Black		
		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.64	--	g/cm ³	ISO 1183
Molding Shrinkage	0.10 - 0.30	--	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.16	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19500	19500	MPa	ISO 527-2
Tensile Stress (Break)	280	260	MPa	ISO 527-2
Tensile Strain (Break)	1.9	2.2	%	ISO 527-2
Flexural Modulus	18500	--	MPa	ISO 178
Flexural Stress	380	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	110	--	J/m	ASTM D256
Unnotched Izod Impact	850	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	--	°C	ISO 75-2/A
CLTE - Flow	1.5E-5	--	cm/cm/°C	ISO 11359-2
Additional Information	Dry	Conditioned		
Water absorption-Equil, 65% RH	--			
Injection	Dry	Unit		
Drying Temperature	120		°C	
Drying Time	0.50 - 1.5		hr	
Rear Temperature	250 - 260		°C	
Front Temperature	260 - 290		°C	
Nozzle Temperature	260 - 290		°C	
Processing (Melt) Temp	280		°C	
Mold Temperature	120 - 140		°C	
Injection Rate	Fast			
Injection instructions				

Hot runners: 250°C to 260°C (482°C to 500°F) Storage Ixef® 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 Ixef® resins be dried prior to molding following the recommendations found in this datasheet and/or in the Ixef® processing guide. Drying The material as supplied is ready for molding without drying. However, If the bags have been open for longer than 24 hours, the material needs to be dried. When using a desiccant air dryer with dew point of -28°C (-18°F) or lower, these guidelines can be followed: 0.5-1.5 hour at 120°C (248°F), 1-3 hours at 100°C (212°F), or 1-7 hours at 80°C (176°F). Injection Molding Ixef® DW-1022 compound can be readily injection molded in most screw injection molding machines. A general purpose screw is recommended, with minimum back pressure. The measured melt temperature should be about 280°C (536°F), and the barrel temperatures should be around 250 to 260°C (482 to 500°F) in the rear zone, gradually increasing to 260 to 290°C (500 to 554°F) in the front zone. If hot runners are used, they should be set to 250 to 260°C (482 to 500°F). To maximize crystallinity, the temperature of the mold cavity surface must be held between 120 and 140°C (248 and 284°F). Molding at lower temperatures will produce articles that may warp, have poor surface appearance, and have a greater tendency to creep. Set injection pressure to give rapid injection. Adjust holding pressure and hold time to maximize part weight. Transfer from injection to hold pressure at the screw position just before the part is completely filled (95-99%).

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Recommended distributors for this material

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