Solvay Specialty Polymers Ixef® 1023 Polyarylamide (PARA) (discontinued **)

Category : Polymer , Thermoplastic , Polyarylamide (PAA) , Polyarylamide, Glass Fiber Filled

Material Notes:

Ixef 1023 is a 50% glass-fiber reinforced, UV stabilized polyarylamide for interior applications, which exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance. - Natural: Ixef 1023/0008 - Custom ColorableInjection Notes: Hot runners: 250°C to 260°C (482°C to 500°F) 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 1023 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%).

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1023-Polyarylamide-PARA-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	65% RH
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	250 MPa	36300 psi	ISO 527-2
Elongation at Break	1.9 %	1.9 %	ISO 527-2
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527-2
Flexural Strength	385 MPa	55800 psi	ISO 178
Flexural Modulus	18.5 GPa	2680 ksi	ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	8.50 J/cm	15.9 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	UL 94
Oxygen Index	25 %	25 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	4.6 @Frequency 110 Hz	4.6 @Frequency 110 Hz	IEC 60250
Dielectric Strength	31.0 kV/mm	787 kV/in	IEC 60243-1
Dissipation Factor	0.017 @Frequency 110 Hz	0.017 @Frequency 110 Hz	IEC 60250
Comparative Tracking Index	570 V	570 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 °C	482 - 500 °F	
Front Barrel Temperature	260 - 290 °C	500 - 554 °F	
Melt Temperature	280 °C	536 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	
Drying Temperature	100 °C @Time 3600 - 10800 sec	212 °F @Time 1.00 - 3.00 hour	

Descriptive Properties	Value	Comments
Additive	UV Stabilizer	
Appearance	Natural Color	
Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Value	Comments
	Europe	
	North America	
	South America	
Features	General Purpose	
	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	High Flow	
	High Strength	
	Low Moisture Absorption	
	Outstanding Surface Finish	
	Ultra High Stiffness	
Forms	Pellets	
Injection Rate	Fast	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	
	Business Equipment	
	Cams	
	Electrical Housing	
	Electrical/Electronic Applications	
	Furniture	
	Gears	
	Industrial Applications	
	Lawn and Garden Equipment	
	Machine/Mechanical Parts	

Descriptive Properties	Value	Comments
	Metal Replacement	
	Power/Other Tools	

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