

Solvay Specialty Polymers Ixef® 1028 Polyarylamide (PARA) (discontinued **)

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

Material Notes:

Ixef 1028 is a laser printable, 50% glass-fiber reinforced polyarylamide which exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance. - Black: Ixef 1028/9208 Injection Notes: Hot Runner: 250°C to 260°C (482°F 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 1028 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°C to 260°C (482°F to 500°F) in the rear zone, gradually increasing to 260°C to 290°C (500°F to 554°F) in the front zone. If hot runners are used, they should be set to 250°C to 260°C (482 to 500°F). To maximize crystallinity, the temperature of the mold cavity surface must be held between 120°C and 140°C (248°F 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-1028-Polyarylamide-PARA-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Unspecified Filler
Water Absorption	0.17 % @Time 86400 sec	0.17 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	65% RH
Linear Mold Shrinkage, Flow	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	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527-2
Flexural Strength	360 MPa	52200 psi	ISO 178
Flexural Modulus	18.5 GPa	2680 ksi	ISO 178
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.30 J/cm	13.7 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	UL 94
Oxygen Index	26 %	26 %	ISO 4589-2

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	120 °C @Time 1800 - 5400 sec	248 °F @Time 0.500 - 1.50 hour	

Descriptive Properties	Value	Comments
Appearance	Black	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	High Flow	
	High Strength	
	Laser Markable	
	Low Moisture Absorption	

Descriptive Properties	Value	ending Surface Finish	Comments
	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		
	Metal Replacement		
	Power/Other Tools		

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