

Solvay Specialty Polymers Ixef® 3008 Polyarylamide (PARA) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyarylamide (PAA)

Material Notes:

Ixef 3008 is a 30% carbon-fiber reinforced polyarylamide compound which exhibits extremely high strength and stiffness, good surface gloss, excellent creep resistance, and lower density than glass-fiber reinforced engineering resins. **Black: Ixef 3008/9008**

Injection Notes:
Hot Runners: 250°C to 260°C (482°F to 500°F) **Injection Pressure:** rapid 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 3008** 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 280°C (500°F to 536°F) in the front zone. If hot runners are used, they should be set to 250°C to 260°C (482°F 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%). Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-3008-Polyarylamide-PARA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Carbon Fiber Reinforcement
Water Absorption	0.22 % @Temperature 23.0 °C, Time 86400 sec	0.22 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	65% RH; Internal Method
Linear Mold Shrinkage, Flow	0.00030 - 0.0010 cm/cm	0.00030 - 0.0010 in/in	Internal Method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	250 MPa	36300 psi	ISO 527-2
Elongation at Break	1.3 %	1.3 %	ISO 527-2
Tensile Modulus	26.0 GPa	3770 ksi	ISO 527-2
Flexural Strength	360 MPa	52200 psi	ISO 178
Flexural Modulus	23.0 GPa	3340 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.530 J/cm	1.17 ft-lb/in	ASTM D256
	4.50 J/cm	8.43 ft-lb/in	ASTM D256
Charpy Impact Unnotched	3.60 J/cm ²	17.1 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.360 J/cm ²	1.71 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
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	23 %	23 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	3000 ohm-cm	3000 ohm-cm	ASTM D257
Comparative Tracking Index	600 V	600 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	120 °C	248 °F	
Dry Time	0.500 - 1.50 hour	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

Descriptive Properties	Value	Comments
	Good Creep Resistance	
	Good Dimensional Stability	
	High Flow	
	High Strength	
	Low Moisture Absorption	
	Outstanding Surface Finish	
	Ultra High Stiffness	
Forms	Pellets	
Generic	PARA	
Processing Method	Injection Molding	
Uses	Appliance Components	
	Appliances	
	Automotive Applications	
	Automotive Electronics	
	Automotive Under the Hood	
	Bushings	
	Camera Applications	
	Cams	
	Cell Phones	
	Electrical/Electronic Applications	
	Furniture	
	Gears	
	Industrial Applications	
	Lawn and Garden Equipment	
	Machine/Mechanical Parts	
	Metal Replacement	
	Power/Other Tools	

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