Solvay Specialty Polymers Ixef® 2060 Polyarylamide (PARA) (discontinued **)

Categories: Polymer; Thermoplastic; Polyarylamide; Polyarylamide, Glass Fiber Filled

Material Notes: Ixef 2060 is a 55% reinforced, general purpose polyarylamide compound. This compound exhibits improved vibration resistance, low warpage, and excellent surface finish. This grade has excellent properties in the transverse direction. - Black: Ixef 2060/9008 - Custom Colorable

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 2060 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 between 265°C to 275°C (477-495°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°F to 500°F). To maximize crystallinity, the temperature of the mold cavity surface must be held between 120°C to 140°C (248°F and 284°F). Molding at a lower temperature 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%).

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.70 g/cc	0.0614 lb/in³	ISO 1183
Filler Content	55.0 %	55.0 %	Glass Fiber
Water Absorption	0.100 % @Time 24.0 hour	0.100 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.20 %	1.20 %	65% RH
Linear Mold Shrinkage, Flow	0.00150 - 0.00250 cm/cm	0.00150 - 0.00250 in/in	
Linear Mold Shrinkage, Transverse	0.00250 - 0.00450 cm/cm	0.00250 - 0.00450 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	80.0 MPa	11600 psi	Weldline; ISO 527-2
	180 MPa	26100 psi	ISO 527-2
Elongation at Break	1.50 %	1.50 %	ISO 527-2
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-2
Flexural Modulus	18.0 GPa	2610 ksi	ISO 178
Flexural Strength	270 MPa	39200 psi	ISO 178
Charpy Impact Unnotched	2.70 J/cm²	12.8 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.440 J/cm²	2.09 ft-lb/in²	ISO 179

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	247 - 257 °C	477 - 495 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	
Drying Temperature	120 °C @Time 0.500 - 1.50 hour	248 °F @Time 0.500 - 1.50 hour	

Descriptive Properties	
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
	Low Moisture Absorption
	Low Warpage
	Outstanding Surface Finish
	Ultra High Stiffness
Forms	Pellets
Processing Method	Injection Molding
RoHS Compliance	RoHS Compliant

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Materials flagged as discontinued (⊘) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.