Solvay Specialty Polymers Ixef® 2030 Polyarylamide (PARA) (Unverified Data**)

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

Material Notes:

Ixef 2030 is a 55% glass-fiber/mineral reinforced polyarylamide compound which exhibits high strength, very high stiffness, low warpage, excellent creep resistance and outstanding surface gloss. - Black Ixef 2030/X927 - Custom ColorableInjection 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 2030 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°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-2030-Polyarylamide-PARA-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in³	ISO 1183
Filler Content	55 %	55 %	GlassMineral
Water Absorption	0.19 % @Temperature 23.0 °C, Time 86400 sec	0.19 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.6 %	1.6 %	65% RH; Internal Method
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	Internal Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-2
Elongation at Break	1.2 %	1.2 %	ISO 527-2
Tensile Modulus	21.5 GPa	3120 ksi	ISO 527-2
Flexural Strength	220 MPa	31900 psi	ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
	2.70 J/cm	5.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	UL 94
Oxygen Index	26 %	26 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	4.8 @Frequency 110 Hz	4.8 @Frequency 110 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.025 @Frequency 110 Hz	0.025 @Frequency 110 Hz	IEC 60250
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	
	Colors Available	
Availability	Africa & Middle East	

Descriptive Properties	Value	Comments
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Strength	
	High Flow	
	High Stiffness	
	Low Moisture Absorption	
	Low Warpage	
	Outstanding Surface Finish	
Forms	Pellets	
Generic	PARA	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Automotive Applications	
	Automotive Electronics	
	Business Equipment	
	Cams	
	Furniture	
	Gears	
	Industrial Applications	
	Lawn and Garden Equipment	
	Machine/Mechanical Parts	
	Metal Replacement	
	Power/Other Tools	

Descriptive Properties	Value	Comments

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China