

Solvay Specialty Polymers Ixef® 1027 Polyarylamide (PARA), 50% Glass Fiber

Category : Polymer , Thermoplastic , PVDC , Polyvinyl Dichloride (PVDC)

Material Notes:

Ixef® 1027 is a 50% glass-fiber reinforced, heat stabilized polyarylamide, which exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Heat Stabilized; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness Uses: Appliance Components; Appliances; Automotive Applications; Business Equipment; Furniture; Gears; Industrial Applications; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools Injection Molding Notes: Ixef® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Ixef® resins be dried prior to molding. Additional Properties: Moisture Absorption - Internal Method 1.5 % Automotive Specifications GM GM7001M PAMXD6(A4,A22,A42,A64,BA651,G30,MS1650,NS335) Color: 9000 Black Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1027-Polyarylamide-PARA-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	235 MPa	34100 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	0.900 J/cm	1.69 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.20 J/cm	13.5 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ISO 11359-2

Thermal Properties Thermal Expansion Coefficient at 1.8 MPa (264 psi)	Metric 220 Â°C	English 428 Â°F	Comments Annealed, ISO 75-2/A
Flammability, UL94	HB	HB	
Oxygen Index	25 %	25 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IIEC 60093
Dielectric Constant	4.6 @Frequency 1.10e+8 Hz	4.6 @Frequency 1.10e+8 Hz	IEC 60250
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	
Front Barrel Temperature	260 - 290 Â°C	500 - 554 Â°F	
Melt Temperature	280 Â°C	536 Â°F	
Mold Temperature	120 - 140 Â°C	248 - 284 Â°F	
Drying Temperature	120 Â°C @Time 1800 - 5400 sec	248 Â°F @Time 0.500 - 1.50 hour	

Descriptive Properties	Value	Comments
Additive	Heat Stabilizer	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	

Injection Rate	Fast
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Descriptive Properties	Value	Comments
Processing Techniques	Injection Molding	
RoHS Compliance	RoHS Compliant	

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