

Solvay Specialty Polymers Ixef® 1002 Polyarylamide (PARA), 30% Glass Fiber

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

Material Notes:

Ixef® 1002 is a 30% glass-fiber reinforced, general purpose polyarylamide compound which exhibits high strength and rigidity, outstanding surface finish, and excellent creep resistance. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Flow; High Stiffness; High Strength; Low Moisture Absorption; Outstanding Surface Finish Uses: Appliance Components; Appliances; Automotive Applications; Automotive Electronics; Automotive Exterior Parts; Automotive Interior Parts; Automotive Under the Hood; Bushings; Camera Applications; Cell Phones; Electrical Housing; Electrical/Electronic Applications; Furniture; Gears; Industrial Applications; 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 1.9 % Automotive Specifications ASTM D6779 PA111G30; BMW GS 93016 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1002-Polyarylamide-PARA-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 527-2
Elongation at Break	2.0 %	2.0 %	ISO 527-2
Tensile Modulus	11.5 GPa	1670 ksi	ISO 527-2
Flexural Strength	285 MPa	41300 psi	ISO 178
Flexural Modulus	11.5 GPa	1670 ksi	ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.60 J/cm	8.62 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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CTE linear Parallel to Flow Thermal Properties	18.0 Åum/m-Å°C Metric	10.0 Åuin/in-Å°F English	ISO 11358-2 Comments
Deflection Temperature at 1.8 MPa (264 psi)	230 Å°C	446 Å°F	Unannealed; 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	3.9 @Frequency 110 Hz	3.9 @Frequency 110 Hz	IEC 60250
Dielectric Strength	30.0 kV/mm	762 kV/in	IEC 60243-1
Dissipation Factor	0.010 @Frequency 110 Hz	0.010 @Frequency 110 Hz	IEC 60250
Comparative Tracking Index	400 V	400 V	IEC 60112

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

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors; Natural	
Form	Pellets	

Descriptive Properties	Value	Comments
Injection Rate		
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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