

Solvay Specialty Polymers Ixef® 1022 Polyarylamide (PARA), 50% Glass Fiber (Dry)

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

Material Notes:

Ixef® 1022 is a 50% glass-fiber reinforced, general purpose polyarylamide compound that exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance. Features: General Purpose; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Sterilizability; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness Uses: Appliances; Automotive Applications; Automotive Interior Parts; Cell Phones; Electrical Parts; Furniture; High Gloss Applications; Hospital Goods; Medical Devices; Sporting Goods; Surgical Instruments 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: Dissipation Factor - IEC 60250 0.017; Moisture Absorption - Internal Method 1.50 Automotive Specifications ASTM D6779 PA111G50; BMW GS 93016; BOSCH N28 BN05-OX1 Color: 0008 Natural; BOSCH N28 BN05-OX1 Color: 9008 Black; GM GM7001M PAMXD6(A4,A22,A64,BA651,G30,MS1700,NS335) Color: 9008 Black; GM GM7001M PAMXD6(A4,A22,A64,BA751,G30,MS1700,NS350) Color: NT Natural Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1022-Polyarylamide-PARA-50-Glass-Fiber-Dry.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	280 MPa	40600 psi	ISO 527-2
Elongation at Break	1.9 %	1.9 %	ISO 527-2
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527-2
Flexural Strength	400 MPa	58000 psi	ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.50 J/cm	15.9 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 Âµm/m-Â°C	8.33 Âµin/in-Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	230 Â°C	446 Â°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	4.6	4.6	IEC 60250
	@Frequency 1.10e+8 Hz	@Frequency 1.10e+8 Hz	
Dielectric Strength	31.0 kV/mm	787 kV/in	IEC 60243-1
Comparative Tracking Index	570 V	570 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	
Nozzle 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	248 Â°F	
	@Time 1800 - 5400 sec	@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	

Descriptive Properties	Value	Comments
Injection Rate	Fast	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	
UL File Number	E95746 (Global)	

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