

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

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

Material Notes:

Ixef® GS-1022 is a 50% glass-fiber reinforced grade of polyarylamide (PARA) available in several colors. Parts molded from these colored resins can withstand high-energy gamma radiation without significant change in appearance and physical properties. Ixef® GS-1022 resins demonstrate no evidence of cytotoxicity, sensitization, intracutaneous reactivity or acute systemic toxicity, based on biocompatibility testing as defined by ISO 10993-1. Features: Biocompatible; E-beam Sterilizable; Ethylene Oxide Sterilizable; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Sterilizability; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Radiation (Gamma) Resistant; Radiation Sterilizable; Radiotranslucent; Ultra High Stiffness Uses: Dental Applications; Hospital Goods; Medical Devices; Medical/Healthcare Applications; 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: Moisture Absorption - Internal Method 1.5 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-GS-1022-Polyarylamide-PARA-50-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 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	265 MPa	38400 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	22.0 GPa	3190 ksi	ISO 527-2
Flexural Strength	380 MPa	55100 psi	ISO 178
Flexural Modulus	22.0 GPa	3190 ksi	ISO 178
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 180

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

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 @Time 1800 - 5400 sec	248 Â°F @Time 0.500 - 1.50 hour	

Descriptive Properties	Value	Comments
Additive	Gamma Stabilizer	
Agency Ratings	ISO 10993	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Colors Available	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	

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