

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

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

### Material Notes:

Ixef® HC-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: Biocompatible; E-beam Sterilizable; Ethylene Oxide Sterilizable; General Purpose; 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; High Gloss 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 1.50 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Ixef-HC-1022-Polyarylamide-PARA-50-Glass-Fiber-Dry.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-HC-1022-Polyarylamide-PARA-50-Glass-Fiber-Dry.php)

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in <sup>3</sup>	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	19.5 GPa	2830 ksi	ISO 527-2
Flexural Strength	380 MPa	55100 psi	ISO 178
Flexural Modulus	18.5 GPa	2680 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
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CTE linear Parallel to Flow Thermal Properties	15.0 Åum/m-Å°C Metric	8.33 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

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	
Nozzle 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
Agency Ratings	ISO 10993	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors; Grey; Natural	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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