

Solvay Specialty Polymers Ixef® 1622 Polyarylamide (PARA), 50% Glass Fiber (Dry)

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

Material Notes:

Ixef® 1622 is an impact modified, 50% glass-fiber reinforced polyarylamide. which exhibits very high strength and rigidity, outstanding surface gloss, and excellent impact resistance. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Flow; High Stiffness; High Strength; Impact Modified; Low Moisture Absorption; Outstanding Surface Finish Uses: Appliance Components; Appliances; Automotive Applications; Automotive Electronics; Business Equipment; Camera Applications; Electrical Housing; Electrical/Electronic Applications; Furniture; Gears; Housings; 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1622-Polyarylamide-PARA-50-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.19 % @Time 86400 sec	0.19 % @Time 24.0 hour	ISO 62
Water Absorption at Saturation	1.5 %	1.5 %	65% RH; ASTM D570
Linear Mold Shrinkage, Flow	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	2.6 %	2.6 %	ISO 527-2
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527-2
Flexural Strength	360 MPa	52200 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.0 J/cm	20.6 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	220 Â°C	428 Â°F	Annealed; ISO 75-2/A
Flammability, UL94	HB @Thickness >=0.600 mm	HB @Thickness >=0.0236 in	
Oxygen Index	25 %	25 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.23 @Frequency 1.00e+9 Hz	4.23 @Frequency 1.00e+9 Hz	ASTM D2520
	4.27 @Frequency 2.40e+9 Hz	4.27 @Frequency 2.40e+9 Hz	ASTM D2520
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
Dissipation Factor	0.0095	0.0095	Method B; ASTM D2520

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	
Front Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	
Melt Temperature	270 Â°C	518 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	Impact Modifier	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	

Descriptive Properties	Value	Comments
Color	Black, Colors; Natural	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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