

Solvay Specialty Polymers Ixef® 1521 Polyarylamide (PARA), 50% Glass Fiber

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

Material Notes:

Ixef® 1521 is a 50% glass-fiber reinforced, flame retardant polyarylamide which exhibits high strength and stiffness, outstanding surface gloss, and excellent creep resistance. Features: Flame Retardant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness Uses: Aircraft Applications; Appliance Components; Appliances; Automotive Applications; Automotive Electronics; Automotive Under the Hood; Bushings; Business Equipment; Camera Applications; Furniture; Gears; 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. Additional Properties: Moisture Absorption - Internal Method 1.3 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1521-Polyarylamide-PARA-50-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.15 % @Time 86400 sec	0.15 % @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	230 MPa	33400 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	340 MPa	49300 psi	ISO 178
Flexural Modulus	20.0 GPa	2900 ksi	ISO 178
Izod Impact, Notched	0.950 J/cm	1.78 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.00 J/cm	13.1 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ISO 11359-2

Thermal Properties (Thermal Resistance at 1.8 MPa (264 psi))	Metric 230 Â°C	English 446 Â°F	Comments Unannealed; ISO 75-2/A
Flammability, UL94	V-0	V-0	
	@Thickness 0.750 - 1.50 mm	@Thickness 0.0295 - 0.0591 in	
	5VA	5VA	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	32 %	32 %	ISO 4589-2
Glow Wire Test	900 Â°C	1650 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	900 Â°C	1650 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	930 Â°C	1710 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 Â°C	1760 Â°F	Glow Wire Flammability Index, IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 Â°C	1760 Â°F	Glow Wire Flammability Index, IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 Â°C	1760 Â°F	Glow Wire Flammability Index, IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	4.1	4.1	IEC 60250
	@Frequency 1.10e+8 Hz	@Frequency 1.10e+8 Hz	
Dielectric Strength	29.0 kV/mm	737 kV/in	IEC 60243-1
Dissipation Factor	0.012	0.012	IEC 60250
	@Frequency 110 Hz	@Frequency 110 Hz	
Comparative Tracking Index	400 V	400 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	

Processing Properties	Metric	English	Comments
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	Flame Retardant	
Agency Ratings	FAA FAR 25.853a	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors; Natural	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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