

Solvay Specialty Polymers Ixef® 1501/0003 Polyarylamide, 30% Glass Fiber, DAM (discontinued **)

Category : Polymer , Thermoplastic , Polyarylamide (PAA) , Polyarylamide, Glass Fiber Filled

Material Notes:

The IXEF compounds are a family of semi-crystalline polyarylamide thermoplastics reinforced with glass fibers and/or mineral fillers for injection molding. Data provided by the manufacturer, Solvay Advanced Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-15010003-Polyarylamide-30-Glass-Fiber-DAM-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Water Absorption	0.19 %	0.19 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.78 %	1.78 %	at 65% RH per Solvay test
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	185 MPa	26800 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
Tensile Modulus	13.0 GPa	1890 ksi	ASTM D638
Flexural Yield Strength	275 MPa	39900 psi	ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	HDT/A; ASTM D648
	120 °C	248 °F	

UL RTI Electrical Thermal Properties	Metric @Thickness 1.50 - 3.00 mm	English @Thickness 0.0591 - 0.118 in	Comments
UL RTI, Mechanical with Impact	105 °C @Thickness 1.50 - 3.00 mm	221 °F @Thickness 0.0591 - 0.118 in	
UL RTI, Mechanical without Impact	105 °C @Thickness 1.50 mm	221 °F @Thickness 0.0591 in	
	120 °C @Thickness 3.00 mm	248 °F @Thickness 0.118 in	
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	UL Rating; Solvay test
Oxygen Index	31.5 %	31.5 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 110 Hz	3.8 @Frequency 110 Hz	ASTM D150
Dielectric Strength	31.0 kV/mm	787 kV/in	ASTM D149
Dissipation Factor	0.010 @Frequency 110 Hz	0.010 @Frequency 110 Hz	ASTM D150
Arc Resistance	>= 60 sec	>= 60 sec	ASTM D495
Comparative Tracking Index	>= 250 V	>= 250 V	IEC 112

Processing Properties	Metric	English	Comments
Feed Temperature	250 - 280 °C	482 - 536 °F	
Rear Barrel Temperature	250 - 280 °C	482 - 536 °F	Compression Zone
Middle Barrel Temperature	250 - 280 °C	482 - 536 °F	Homogenization Zone
Front Barrel Temperature	260 - 290 °C	500 - 554 °F	Nozzle Zone
Melt Temperature	<= 270 °C	<= 518 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	Needed to develop high crystallinity
Injection Pressure	50.0 - 250 MPa	7250 - 36300 psi	

Hold Pressure Processing Properties	30.0 - 150 MPa Metric	4350 - 21800 psi English	Comments
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

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