

Solvay Specialty Polymers Ixef® 1313/0004 Polyarylamide, 40% Glass Fiber + Elastomer, DAM (discontinued **)&l

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

Material Notes:

Impact modified. 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-13130004-Polyarylamide-40-Glass-Fiber-Elastomer-DAM-nbspdiscontinued-l.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Filler Content	40 %	40 %	Glass
Water Absorption	0.21 %	0.21 %	ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	65% RH; Solvay Test
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	Solvay Test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	ISO 527
Elongation at Break	3.1 %	3.1 %	ISO 527
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527
Flexural Strength	275 MPa	39900 psi	ISO 178
Flexural Modulus	12.5 GPa	1810 ksi	ISO 178
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ISO 180
Izod Impact, Unnotched	9.00 J/cm	16.9 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C	9.44 µin/in-°F	ISO 11358
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ISO 8302
Melting Point	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	IEC 93/167
Dielectric Constant	3.7	3.7	IEC 250
	@Frequency 110 Hz	@Frequency 110 Hz	
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 243
Dissipation Factor	0.0070	0.0070	IEC 250
	@Frequency 110 Hz	@Frequency 110 Hz	
Comparative Tracking Index	>= 400 V	>= 400 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	30.0 - 150 MPa	4350 - 21800 psi	
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

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