

Solvay Specialty Polymers Ixef® 2010/X914 Polyarylamide, 40% Filler, 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-2010X914-Polyarylamide-40-Filler-DAM-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Water Absorption	0.18 %	0.18 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.8 %	1.8 %	at 65% RH per Solvay test
Linear Mold Shrinkage, Flow	0.0055 cm/cm	0.0055 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	105 MPa	15200 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Tensile Modulus	9.50 GPa	1380 ksi	ASTM D638
Flexural Yield Strength	180 MPa	26100 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.30 J/cm	6.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 µm/m-°C	17.8 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.500 W/m-K	3.47 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	HDT/A; ASTM D648
Flammability, UL94	HB	HB	HB UL Rating ; Solvay test

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.00e+15 ohm-cm	4.00e+15 ohm-cm	ASTM D257
Dielectric Constant	4.4	4.4	ASTM D150
	@Frequency 110 Hz	@Frequency 110 Hz	
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149
Dissipation Factor	0.017	0.017	ASTM D150
	@Frequency 110 Hz	@Frequency 110 Hz	
Arc Resistance	>= 60 sec	>= 60 sec	ASTM D495
Comparative Tracking Index	550 V	550 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	280 °C	536 °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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