

Solvay Specialty Polymers Ixef® 2010/X914 Polyarylamide, 40% Filler, at Equilibrium (65% RH) (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-at-Equilibrium-65-RH-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	Dry as molded

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	70.0 MPa	10200 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Tensile Modulus	6.50 GPa	943 ksi	ASTM D638
Flexural Yield Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	5.50 GPa	798 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.50 J/cm	4.68 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	240 °C	464 °F	

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	

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

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