

Solvay Specialty Polymers Ixef® 3006/9019 Polyarylamide, 30% Carbon 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-30069019-Polyarylamide-30-Carbon-Fiber-DAM-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Carbon
Water Absorption	0.22 %	0.22 %	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	65% RH; Solvay Test
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	Solvay Test

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	250 MPa	36300 psi	ISO 527
Elongation at Break	1.3 %	1.3 %	ISO 527
Tensile Modulus	26.0 GPa	3770 ksi	ISO 527
Flexural Strength	340 MPa	49300 psi	ISO 178
Flexural Modulus	24.0 GPa	3480 ksi	ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ISO 180
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ISO 180

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.750 W/m-K	5.20 BTU-in/hr-ft ² -°F	ISO 8302
Melting Point	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75
Oxygen Index	23 %	23 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	3000 ohm-cm	3000 ohm-cm	ISO 3915
Surface Resistance	200 ohm	200 ohm	ISO 3915

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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