

Solvay Specialty Polymers Ixef® 3006/9019 Polyarylamide, 30% Carbon Fiber, at Equilibrium (65% RH) (discontin

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-at-Equilibrium-65-RH-nbspdiscontin.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	DAM; ISO 1183
Filler Content	30 %	30 %	Carbon
Water Absorption	0.22 %	0.22 %	24 hr (DAM); ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	65% RH (beginning DAM); 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	190 MPa	27600 psi	ISO 527
Elongation at Break	1.3 %	1.3 %	ISO 527
Tensile Modulus	23.0 GPa	3340 ksi	ISO 527
Flexural Strength	270 MPa	39200 psi	ISO 178
Flexural Modulus	21.0 GPa	3050 ksi	ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ISO 180
Izod Impact, Unnotched	3.45 J/cm	6.46 ft-lb/in	ISO 180

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 Processing Properties	250 - 280 °C Metric	482 - 536 °F English	Homogenization Zone Comments
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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