

Solvay Specialty Polymers Ixef® 1313/0004 Polyarylamide, 40% Glass Fiber + Elastomer, at Equilibrium (65% RH)

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-at-Equilibrium-65-RH-nbsp.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	DAM; ISO 1183
Filler Content	40 %	40 %	Glass
Water Absorption	0.21 %	0.21 %	24 hr (DAM); ISO 62
Moisture Absorption at Equilibrium	1.5 %	1.5 %	65% RH (beginning DAM); 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	135 MPa	19600 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	ISO 527
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	10.0 GPa	1450 ksi	ISO 178
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ISO 180
Izod Impact, Unnotched	7.50 J/cm	14.1 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	250 - 280 °C	482 - 536 °F	Homogenization Zone

Processing Properties Front Barrel Temperature	Metric 180 - 290 °C	English 350 - 554 °F	Comments 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China