

Solvay Specialty Polymers Ixef® 1501/0003 Polyarylamide, 30% Glass 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-15010003-Polyarylamide-30-Glass-Fiber-at-Equilibrium-65-RH-nbspdiscontin.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|---------------|
| Density | 1.51 g/cc | 0.0546 lb/in ³ | Dry as molded |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|----------------|-----------|
| Tensile Strength, Ultimate | 150 MPa | 21800 psi | ASTM D638 |
| Elongation at Break | 2.3 % | 2.3 % | ASTM D638 |
| Tensile Modulus | 11.5 GPa | 1670 ksi | ASTM D638 |
| Flexural Yield Strength | 215 MPa | 31200 psi | ASTM D790 |
| Flexural Modulus | 9.00 GPa | 1310 ksi | ASTM D790 |
| Izod Impact, Notched | 0.500 J/cm | 0.937 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 3.45 J/cm | 6.46 ft-lb/in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|-------------------------------------|--|----------|
| Melting Point | 240 °C | 464 °F | |
| UL RTI, Electrical | 130 °C @Thickness 1.50 - 3.00 mm | 266 °F @Thickness 0.0591 - 0.118 in | |
| UL RTI, Mechanical with Impact | 105 °C @Thickness 1.50 - 3.00 mm | 221 °F @Thickness 0.0591 - 0.118 in | |
| UL RTI, Mechanical without Impact | 105 °C @Thickness 1.50 mm | 221 °F @Thickness 0.0591 in | |
| | 120 °C @Thickness 3.00 mm | 248 °F @Thickness 0.118 in | |

| 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 | <= 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 | |

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