

Solvay Specialty Polymers Ixef® 2530/X9027 Polyarylamide, 55% Mineral + Glass 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-2530X9027-Polyarylamide-55-Mineral-Glass-Fiber-DAM-nbspdiscontinued-It.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hrs; ASTM D570
Moisture Absorption at Equilibrium	1.11 %	1.11 %	at 65% RH per Solvay test
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	150 MPa	21800 psi	ASTM D638
Elongation at Break	1.2 %	1.2 %	ASTM D638
Tensile Modulus	20.0 GPa	2900 ksi	ASTM D638
Flexural Yield Strength	220 MPa	31900 psi	ASTM D790
Flexural Modulus	20.0 GPa	2900 ksi	ASTM D790
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.90 J/cm	5.43 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	240 °C	464 °F	
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	HDT/A; ASTM D648
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Oxygen Index	38.5 %	38.5 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.50e+15 ohm-cm	2.50e+15 ohm-cm	ASTM D257
Dielectric Constant	5.3	5.3	ASTM D150
	@Frequency 110 Hz	@Frequency 110 Hz	
Dielectric Strength	22.7 kV/mm	577 kV/in	ASTM D149
Dissipation Factor	0.023	0.023	ASTM D150
	@Frequency 110 Hz	@Frequency 110 Hz	
Arc Resistance	>= 60 sec	>= 60 sec	ASTM D495
Comparative Tracking Index	475 V	475 V	IEC 112

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	

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