

Solvay Specialty Polymers Ixef® 2030 Polyarylamide (PARA), 55% GlassMineral

Category : Polymer , Thermoplastic , Polyarylamide (PAA)

Material Notes:

Ixef® 2030 is a 55% glass-fiber/mineral reinforced polyarylamide compound which exhibits high strength, very high stiffness, low warpage, excellent creep resistance and outstanding surface gloss. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Strength; High Flow; High Stiffness; Low Moisture Absorption; Low Warpage; Outstanding Surface Finish. Uses: Automotive Applications; Automotive Electronics; Business Equipment; Cams; Furniture; Gears; Industrial Applications; Lawn and Garden Equipment; Machine/Mechanical Parts; Metal Replacement; Power/Other Tools. Injection Molding Notes: Ixef® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Ixef® resins be dried prior to molding. Additional Properties: Moisture Absorption - Internal Method 1.6 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-2030-Polyarylamide-PARA-55-GlassMineral.php

Physical Properties	Metric	English	Comments
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Filler Content	55 %	55 %	GlassMineral
Water Absorption	0.19 % @Time 86400 sec	0.19 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ISO 527-2
Elongation at Break	1.2 %	1.2 %	ISO 527-2
Tensile Modulus	21.5 GPa	3120 ksi	ISO 527-2
Flexural Strength	220 MPa	31900 psi	ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.70 J/cm	5.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 µm/m-°C	10.0 µin/in-°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Thermal Expansion Coefficient at 1.8 MPa (264 psi)	220 Â°C	422 Â°F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	
Oxygen Index	26 %	26 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IIEC 60093
Dielectric Constant	4.8	4.8	IEC 60250
	@Frequency 1.10e+8 Hz	@Frequency 1.10e+8 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.025	0.025	IEC 60250
	@Frequency 110 Hz	@Frequency 110 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	
Front Barrel Temperature	260 - 290 Â°C	500 - 554 Â°F	
Melt Temperature	280 Â°C	536 Â°F	
Mold Temperature	120 - 140 Â°C	248 - 284 Â°F	
Drying Temperature	120 Â°C	248 Â°F	
	@Time 1800 - 5400 sec	@Time 0.500 - 1.50 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors	
Form	Pellets	

Descriptive Properties	Value	Comments
RoHS Compliance	RoHS Compliant	

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