

Solvay Specialty Polymers Ixef® 3008 Polyarylamide (PARA), 30% Carbon Fiber

Category : Polymer , Thermoplastic , Polyarylamide (PAA)

Material Notes:

Ixef® 3008 is a 30% carbon-fiber reinforced polyarylamide compound which exhibits extremely high strength and stiffness, good surface gloss, excellent creep resistance, and lower density than glass-fiber reinforced engineering resins. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness Uses: Appliance Components; Appliances; Automotive Applications; Automotive Electronics; Automotive Under the Hood; Bushings; Camera Applications; Cams; Cell Phones; Electrical/Electronic Applications; 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. Automotive Specifications BMW GS 93016 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-3008-Polyarylamide-PARA-30-Carbon-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Filler Content	30 %	30 %	Carbon Fiber
Water Absorption	0.22 % @Time 86400 sec	0.22 % @Time 24.0 hour	ISO 62
Water Absorption at Saturation	2.0 %	2.0 %	65% RH; ASTM D570
Linear Mold Shrinkage, Flow	0.00030 - 0.0010 cm/cm	0.00030 - 0.0010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	250 MPa	36300 psi	ISO 527-2
Elongation at Break	1.3 %	1.3 %	ISO 527-2
Tensile Modulus	26.0 GPa	3770 ksi	ISO 527-2
Flexural Strength	360 MPa	52200 psi	ISO 178
Flexural Modulus	23.0 GPa	3340 ksi	ISO 178
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.50 J/cm	8.43 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.360 J/cmÂ²	1.71 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	230 Â°C	446 Â°F	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	
Oxygen Index	23 %	23 %	ISO 4589-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	3000 ohm-cm	3000 ohm-cm	ASTM D257
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 @Time 1800 - 5400 sec	248 Â°F @Time 0.500 - 1.50 hour	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black	
Form	Pellets	
Processing Technique	Injection Molding	

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