

Solvay Specialty Polymers Ixef® 1032 Polyarylamide (PARA), 60% Glass Fiber (Dry)

Category : Polymer , Thermoplastic , PVDC , Polyvinyl Dichloride (PVDC)

Material Notes:

Ixef® 1032 is a 60% glass-fiber reinforced, general purpose polyarylamide compound which exhibits very high strength and rigidity, outstanding surface gloss, and excellent creep resistance. Features: Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness Uses: Automotive Applications; Automotive Electronics; Automotive Interior Parts; Furniture; High Gloss Applications; Metal Replacement; Sporting Goods 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 1.3 % Automotive Specifications ASTM D6779 PA111G60; BMW GS 93016; GM GM7001M; GM GM7001M PAMXD6 A4 A22 A64 BA661 DC1770 G30 KS2400 MS1800 NS340 RT7 SS225 Color: 0008 Natural; GM GM7001M PAMXD6 A4 A22 A64 BA661 DC1770 G30 KS2400 MS1800 NS340 RT7 SS225 Color: 9008 Black Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1032-Polyarylamide-PARA-60-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.77 g/cc	0.0639 lb/in ³	ISO 1183
Filler Content	60 %	60 %	Glass Fiber
Water Absorption	0.13 % @Time 86400 sec	0.13 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	280 MPa	40600 psi	ISO 527-2
Elongation at Break	1.8 %	1.8 %	ISO 527-2
Tensile Modulus	24.0 GPa	3480 ksi	ISO 527-2
Flexural Strength	400 MPa	58000 psi	ISO 178
Flexural Modulus	23.5 GPa	3410 ksi	ISO 178
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.00 J/cm	16.9 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	230 $\text{Å}^\circ\text{C}$	446 $\text{Å}^\circ\text{F}$	Unannealed; ISO 75-2/A
Flammability, UL94	HB	HB	
Oxygen Index	25 %	25 %	ISO 4589-2
Glow Wire Test	775 $\text{Å}^\circ\text{C}$ @Thickness 1.50 mm	1430 $\text{Å}^\circ\text{F}$ @Thickness 0.0591 in	Glow Wire Flammability Index, IEC 60695-2-12
	775 $\text{Å}^\circ\text{C}$ @Thickness 0.800 mm	1430 $\text{Å}^\circ\text{F}$ @Thickness 0.0315 in	
	800 $\text{Å}^\circ\text{C}$ @Thickness 1.50 mm	1470 $\text{Å}^\circ\text{F}$ @Thickness 0.0591 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	800 $\text{Å}^\circ\text{C}$ @Thickness 0.800 mm	1470 $\text{Å}^\circ\text{F}$ @Thickness 0.0315 in	
	825 $\text{Å}^\circ\text{C}$ @Thickness 3.00 mm	1520 $\text{Å}^\circ\text{F}$ @Thickness 0.118 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	960 $\text{Å}^\circ\text{C}$ @Thickness 3.00 mm	1760 $\text{Å}^\circ\text{F}$ @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IIEC 60093
Dielectric Constant	4.5	4.5	IEC 60250
	@Frequency 1.10e+8 Hz	@Frequency 1.10e+8 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	IEC 60243-1
Dissipation Factor	0.0090	0.0090	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 $\text{Å}^\circ\text{C}$	482 - 500 $\text{Å}^\circ\text{F}$	
Middle Barrel Temperature	260 - 270 $\text{Å}^\circ\text{C}$	500 - 518 $\text{Å}^\circ\text{F}$	

Processing Properties	Metric	English	Comments
Nozzle 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	80.0 Â°C @Time 43200 sec	176 Â°F @Time 12.0 hour	
Moisture Content	<= 0.30 %	<= 0.30 %	
Injection Pressure	50.0 - 150 MPa	7250 - 21800 psi	
Hold Pressure	75.0 MPa	10900 psi	
Back Pressure	0.000 - 1.00 MPa	0.000 - 145 psi	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors; Natural	
Form	Pellets	
Injection Rate	Fast	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw L/D Ratio	15.0:1.0 to 20.0:1.0	

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