

Solvay Specialty Polymers Ixef® 1524 Polyarylamide (PARA), 50% Glass Fiber (Dry)

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

Material Notes:

Ixef® 1524 is a 50% glass-fiber reinforced, halogen-free flame retardant polyarylamide which exhibits high strength and stiffness, good surface gloss, and excellent creep resistance. Features: Bromine Free; Flame Retardant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Halogen Free; High Flow; High Strength; Low Moisture Absorption; Outstanding Surface Finish; Ultra High Stiffness. Uses: Cell Phones; Electrical/Electronic Applications; Housings. 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. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ixef-1524-Polyarylamide-PARA-50-Glass-Fiber-Dry.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	50% RH; ASTM D570
	1.3 %	1.3 %	65% RH; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	230 MPa	33400 psi	ISO 527-2
Elongation at Break	1.9 %	1.9 %	ISO 527-2
Tensile Modulus	20.0 GPa	2900 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ISO 178
Flexural Modulus	18.5 GPa	2680 ksi	ISO 178
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	Type 1, Edgewise; ISO 179
Charpy Impact, Notched	0.930 J/cm ²	4.43 ft-lb/in ²	Type 1, Edgewise; ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	227 Â°C	441 Â°F	Unannealed; ISO 75-2/A
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Oxygen Index	37 %	37 %	ISO 4589-2
Glow Wire Test	775 Â°C	1430 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	825 Â°C	1520 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	850 Â°C	1560 Â°F	Glow Wire Ignition Temperature; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.44	4.44	ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	
Dissipation Factor	0.012	0.012	Method B; ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	
High Voltage Arc Resistance to Ignition (HVAR)	>= 300 sec	>= 300 sec	UL 746
Comparative Tracking Index	>= 600 V	>= 600 V	UL 746
	>= 600 V	>= 600 V	IEC 60112
	>= 600 V	>= 600 V	PLC 0; UL 746
Hot Wire Ignition, HWI	95 sec	95 sec	UL 746
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	>= 120 sec	>= 120 sec	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 sec	>= 120 sec	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	UL 746
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
High Amp Arc Ignition, HAI	@Thickness 0.400 mm	@Thickness 0.0157 in	UL 746
	53.6 arcs	53.6 arcs	UL 746
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	70.2 arcs	70.2 arcs	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	95.4 arcs	95.4 arcs	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	UL 746

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	100 Â°C	212 Â°F	
	@Time 3600 - 10800 sec	@Time 1.00 - 3.00 hour	

Descriptive Properties	Value	Comments
Additive	Flame Retardant	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Colors	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

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