

Solvay Specialty Polymers Kalix® 9945 HFFR Polyamide, High Performance (HPPA), 45% Glass Fiber

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Kalix® 9945 HFFR is a 45% glass-fiber reinforced, halogen-free flame retardant High Performance Polyamide. It is hot-water moldable and intended for use in components requiring superior mechanical properties, excellent surface quality and excellent flammability rating. Features: Fast Molding Cycle; Good Dimensional Stability; Good Impact Resistance; Good Surface Finish; High Flow; High Stiffness; High Strength; Hot Water Moldability; Low Warpage; Paintable; Platable. Uses: Cell Phones; Electrical Parts; Electrical/Electronic Applications; Thin-walled Parts. Injection Molding Notes: Kalix® 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 Kalix® resins be dried prior to molding. Additional Properties: Flexural Strain at Break - ISO 178 2.5 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Kalix-9945-HFFR-Polyamide-High-Performance-HPPA-45-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Filler Content	45 %	45 %	Glass Fiber
Linear Mold Shrinkage, Flow	0.0012 cm/cm	0.0012 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0028 cm/cm	0.0028 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	190 MPa	27600 psi	ISO 527-2
Elongation at Break	1.9 %	1.9 %	ISO 527-2
Tensile Modulus	17.0 GPa	2470 ksi	ISO 527-2
Flexural Strength	280 MPa @Strain 3.50 %	40600 psi @Strain 3.50 %	ISO 178
Flexural Modulus	15.0 GPa	2180 ksi	ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
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Thermal Properties Deflection Temperature at 0.46 MPa (0.07 psi)	257 Â°C Metric	495 Â°F English	HDT B: Unannealed; ISO 75-2/B Comments
Flammability, UL94	V-0	V-0	
	@Thickness 0.400 mm	@Thickness 0.0157 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.2	4.2	ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	
Dissipation Factor	0.010	0.010	Method B; ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 270 Â°C	509 - 518 Â°F	
Front Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	
Melt Temperature	280 - 290 Â°C	536 - 554 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	80.0 Â°C	176 Â°F	
	@Time 14400 - 43200 sec	@Time 4.00 - 12.0 hour	
Moisture Content	<= 0.090 %	<= 0.090 %	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	
Color	Black; Colors; Natural	
Form	Pellets	
Part Marking Code	>PAMXD6/66-GF45<	ISO 11469
Processing Technique	Injection Molding; Water-Heated Mold Injection Molding	

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