

## Solvay Specialty Polymers Kalix<sup>®</sup> 9950 Polyamide, High Performance (HPPA), 50% Glass Fiber

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Kalix<sup>®</sup> 9950 is a 50% glass-fiber reinforced high-performance polyamide. It is hot-water moldable and intended for use in components requiring superior mechanical properties and excellent surface quality. 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<sup>®</sup> 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<sup>°</sup>C (122<sup>°</sup>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<sup>®</sup> 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-Kalix-9950-Polyamide-High-Performance-HPPA-50-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Kalix-9950-Polyamide-High-Performance-HPPA-50-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
Filler Content	50 %	50 %	Glass Fiber
Water Absorption	0.37 % @Time 86400 sec	0.37 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0032 cm/cm	0.0032 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	245 MPa	35500 psi	ISO 527-2
Elongation at Break	2.3 %	2.3 %	ISO 527-2
Tensile Modulus	18.5 GPa	2680 ksi	ISO 527-2
Flexural Strength	379 MPa @Strain 3.50 %	55000 psi @Strain 3.50 %	ISO 178
Flexural Modulus	15.9 GPa	2310 ksi	ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	68.0 kJ/m <sup>2</sup>	32.4 ft-lb/in <sup>2</sup>	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	260 Â°C	500 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	262 Â°C	504 Â°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	254 Â°C	489 Â°F	Unannealed; ISO 75-2/A
Flammability, UL94	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.15 @Frequency 2.40e+9 Hz	4.15 @Frequency 2.40e+9 Hz	ASTM D2520
	4.15 @Frequency 1.00e+9 Hz	4.15 @Frequency 1.00e+9 Hz	ASTM D2520
Dissipation Factor	0.011 @Frequency 2.40e+9 Hz	0.011 @Frequency 2.40e+9 Hz	Method B; ASTM D2520
	0.011 @Frequency 1.00e+9 Hz	0.011 @Frequency 1.00e+9 Hz	Method B; ASTM D2520

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 Â°C	482 Â°F	
Front Barrel Temperature	280 Â°C	536 Â°F	
Melt Temperature	285 - 305 Â°C	545 - 581 Â°F	
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	
Drying Temperature	80.0 Â°C @Time 14400 - 43200 sec	176 Â°F @Time 4.00 - 12.0 hour	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	

Descriptive Properties	North America Value	Comments
Color	Black; Colors; Natural; White	
Form	Pellets	
Part Marking Code	>PAMXD6/66-GF50<	ISO 11469
Processing Technique	Injection Molding; Water-Heated Mold Injection Molding	
RoHS Compliance	RoHS Compliant	

## Contact Songhan Plastic Technology Co.,Ltd.

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