

Solvay Specialty Polymers Kalix® 2955 Polyamide, High Performance (HPPA), Glass Fiber

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Kalix® 2955 is a 27% bio-sourced, PA 6,10-based compound with 55% by weight glass fiber reinforcement. This material is specifically formulated for high strength and stiffness applications where good impact resistance and excellent dimensional stability after molding are required. The formulation also addresses warpage issues associated with the anisotropic shrinkage of glass fiber reinforced materials so that close tolerance molding is more easily achieved. Its low viscosity and excellent flow properties make the material ideal for filling parts with thin-walled sections such as those encountered in the mobile electronics industry. 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: Biobased Content - ASTM D6866 27 %; Flexural Strain at Break - ISO 178 3.0 %; Specific Gravity - 1.58 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Kalix-2955-Polyamide-High-Performance-HPPA-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Water Absorption	0.090 % @Time 86400 sec	0.090 % @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	0.0033 cm/cm	0.0033 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Stress	222 MPa	32200 psi	ISO 527-2
Elongation at Break	2.5 %	2.5 %	ISO 527-2
Tensile Modulus	17.8 GPa	2580 ksi	ISO 527-2
Flexural Strength	330 MPa	47900 psi	ISO 178
Flexural Modulus	15.8 GPa	2290 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	87.0 kJ/m ²	41.4 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	222 Â°C	432 Â°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	214 Â°C	417 Â°F	Unannealed; ISO 75-2/A
Glass Transition Temp, Tg	40.0 Â°C	104 Â°F	DSC
Flammability, UL94	HB @Thickness >=0.600 mm	HB @Thickness >=0.0236 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.13 @Frequency 1.00e+9 Hz	4.13 @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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 275 Â°C	509 - 527 Â°F	
Front Barrel Temperature	280 - 295 Â°C	536 - 563 Â°F	
Melt Temperature	280 - 310 Â°C	536 - 590 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	
Moisture Content	<= 0.090 %	<= 0.090 %	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	
Color	Black; White	
Form	Pellets	

Part Marking Code Descriptive Properties	Value	ISO 11469 Comments
Processing Technique	Injection Molding; Water-Heated Mold Injection Molding	

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