

**Solvay Specialty Polymers Kalix® 2855 Polyamide, High Performance (HPPA), Glass Fiber**

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

**Material Notes:**

Kalix® 2855 is a 27% bio-sourced, PA 6,10-based compound with 55% by weight glass fiber reinforcement. This material is formulated to provide maximum strength, stiffness, impact resistance, and post-mold dimensional stability in thermoplastic parts. 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: Good Dimensional Stability; Good Impact Resistance; Good Surface Finish; High Flow; High Stiffness; High Strength; Hot Water Moldability; Low Moisture Absorption; 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 Elongation at Break - 3.9 %; Specific Gravity - 1.55 Information provided by Solvay Specialty Polymers.

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Kalix-2855-Polyamide-High-Performance-HPPA-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Kalix-2855-Polyamide-High-Performance-HPPA-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Water Absorption	0.090 %	0.090 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	
Linear Mold Shrinkage, Transverse	0.0058 cm/cm	0.0058 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	230 MPa	33400 psi	ISO 527-2
Elongation at Break	3.8 %	3.8 %	ISO 527-2
Tensile Modulus	19.0 GPa	2760 ksi	ISO 527-2
Flexural Strength	355 MPa	51500 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/mÂ²	9.52 ft-lb/inÂ²	Type 1, Notch A; ISO 180
Izod Impact, Unnotched (ISO)	95.0 kJ/mÂ²	45.2 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (107 psi)	222 Â°C	432 Â°F	HDT B; Unannealed; ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	213 Â°C	415 Â°F	Unannealed; ISO 75-2/A
Glass Transition Temp, Tg	40.0 Â°C	104 Â°F	DSC

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.77	3.77	ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	
Dissipation Factor	0.013	0.013	Method B; ASTM D2520
	@Frequency 2.40e+9 Hz	@Frequency 2.40e+9 Hz	

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	176 Â°F	
	@Time 14400 sec	@Time 4.00 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	>PA610-GF55<	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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