

Axiall SP-6655 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf SP-6655 is a high flow rigid PVC compound designed for electrical and custom molding applications. This compound features excellent physical properties, good melt flow, and exceptionally high impact strength, especially at low temperatures. SP-6655 UL Flammability rating and elevated UL Relative Thermal Index rating are provided. Information provided by Georgia Gulf Georgia Gulf became Axiall Corporation in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axiall-SP-6655-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	Natural; ASTM D-792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D-955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	37.9 MPa	5500 psi	ASTM D-638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D-638
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	1.07 J/cm	2.00 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
	5.34 J/cm	10.0 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	6.94 J/cm	13.0 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	68.00 °C	154.4 °F	unannealed; ASTM D-648
	75.0 °C	167 °F	annealed; ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	61.00 °C	141.8 °F	unannealed; ASTM D-648

Thermal Properties	69.00 °C Metric	156.2 °F English	annealed; ASTM D-648 Comments
Vicat Softening Point	88.3 °C	191 °F	annealed; ASTM D-1525A
UL RTI, Electrical	95.0 °C	203 °F	UL-746B
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL-746B
UL RTI, Mechanical without Impact	85.0 °C	185 °F	UL-746B
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Descriptive Properties	Value	Comments
Cell Classification	14002123	ASTM D-4216
Cell Classification, ASTM D-1784	15233	

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