

Axiall SP-7107 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf SP-7107 is a general purpose, electrical grade rigid vinyl injection molding compound characterized by excellent flow, heat stability, color hold and surface appearance. This makes it an ideal choice for applications such as electrical outlet boxes, terminal strip housings and appliance parts. 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-7107-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D-792
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D-955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D-785
Tensile Strength, Yield	41.4 MPa	6000 psi	ASTM D-638
Tensile Modulus	2.62 GPa	380 ksi	ASTM D-638
Flexural Strength	75.8 MPa	11000 psi	ASTM D-790
Flexural Modulus	2.76 GPa	400 ksi	ASTM D-790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
	8.01 J/cm	15.0 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	20.8 J	15.3 ft-lb	1/2" R Tup, 63 mil
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.00 °C	165.2 °F	ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D-648
UL RTI, Electrical	90.0 °C	194 °F	UL-746B
	@Thickness 1.40 mm	@Thickness 0.0551 in	

Thermal Properties	Metric	English	Comments
UL RTI, Mechanical with Impact	@Thickness 1.40 mm	@Thickness 0.0551 in	UL-746B
UL RTI, Mechanical without Impact	90.0 °C @Thickness 1.40 mm	194 °F @Thickness 0.0551 in	UL-746B
Flammability, UL94	5VA	5VA	
Flame Spread Index	42	42	RP; ASTM E-162
Oxygen Index	36 %	36 %	ASTM D-2863

Descriptive Properties	Value	Comments
Flow Ratio (Distance/Wall Thickness, 390-400°F)	215	Georgia Gulf Test
UL Weatherability Rating	F(1)	UL-746C

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