

Axiall MP-6510 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf MP-6510 is a maximum properties electrical grade PVC injection molding compound processing excellent strength and toughness. In addition, it has good processing stability and surface appearance. It carries a UL 94 V-0/5VA flammability rating, as well as a UL RTI rating. 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-MP-6510-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 - 1.38 g/cc	1.32 - 1.38 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	2.48 GPa	360 ksi	ASTM D-638
Flexural Strength	75.8 MPa	11000 psi	ASTM D-790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D-790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
Gardner Impact	9.61 J/cm	18.0 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	22.6 J	16.7 ft-lb	1/2" R Tup, 67 mil
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °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	
Oxygen Index	36 %	36 %	ASTM D-2863

Descriptive Properties	Value	Comments
Flow Ratio (Distance/Wall Thickness, 390-400°F)	180	Georgia Gulf Test
UL Weatherability Rating	F(1)	UL-746C

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