

Axiall UV-6680 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf UV-6680 is a weatherable, high flow injection molding compound, specially formulated for outdoor UV exposure. This compound was designed to be used in various accessory parts, such as fence post caps, rain gutter parts, deck parts, etc. 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-UV-6680-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 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	97	97	ASTM D-785
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D-638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D-638
Flexural Strength	65.5 MPa	9500 psi	ASTM D-790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D-790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
	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	14.7 J	10.8 ft-lb	1/2" R Tup, 65 mil
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.00 °C	161.6 °F	ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ASTM D-648
Flammability, UL94	V-0	V-0	
Oxygen Index	35 %	35 %	ASTM D-2863

Thermal Properties	Metric	English	Value	Comments
Descriptive Properties			Value	Comments
Flow Ratio (Distance/Wall Thickness, 390-400°F)			230	Georgia Gulf Test

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