

Axiall HH-2000 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf HH-2000 is a high heat/high flow injection molding grade PVC alloy with a price/performance niche between high flow vinyl and utility engineering thermoplastics. It combines excellent flow, toughness and heat deflection/sag characteristics that are a marked improvement over standard vinyl. In addition, HH-2000 has excellent heat and light stability, color hold and surface appearance, making it an ideal candidate for Class A appearance parts requiring good heat warpage resistance such as color computer monitor housings. Process Note: Drying of material for 24 hours at 140-160°F in a dehumidifying dryer is recommended to endure optimum processing characteristics. 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-HH-2000-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D-792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D-955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D-785
Tensile Strength, Yield	43.4 MPa	6300 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	2.41 GPa	350 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	
Gardner Impact	2.14 J/cm	4.00 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	0.294 J	0.217 ft-lb	per mil, 1/2" R Tup
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	76.00 °C	168.8 °F	ASTM D-648

Thermal Properties	Metric	English	Comments
Flammability, UL 94	30A	50A	
Oxygen Index	30 %	30 %	ASTM D-2863

Descriptive Properties	Value	Comments
Flow Ratio (Distance/Wall Thickness, 390-400°F)	210	Georgia Gulf Test

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