

Axiall HR-5009 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf HR-5009 is a rigid, fitting-grade PVC compound designed for hot runner molds, large parts and multi-cavity molds. This compound is characterized by excellent processability, which includes color hold, regrind stability and surface appearance. HR-5009 is NSF listed under standard 14/61 for both potable water and DWV applications. 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-HR-5009-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D-792
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D-955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D-785
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D-638
Tensile Modulus	2.83 GPa	410 ksi	ASTM D-638
Flexural Strength	89.6 MPa	13000 psi	ASTM D-790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D-790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
Gardner Impact	0.587 J/cm	1.10 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	36.2 J	26.7 ft-lb	1/2" R Tup, 123 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)	71.00 °C	159.8 °F	ASTM D-648
Flammability, UL94	V-0	V-0	

Thermal Properties	Metric	English	Comments
Descriptive Properties			
Cell Classification, ASTM D-1784		12454-B	NSF std. 14
Flow Ratio (Distance/Wall Thickness, 390-400°F)		170	Georgia Gulf Test

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