

Axiall SP-7221 Rigid PVC, Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf SP-7221 is a high impact rigid vinyl compound designed for water distribution systems. The product is NSF listed under Standard 14. Information provided by Georgia Gulf became Axiall Corporation in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axiall-SP-7221-Rigid-PVC-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D-792
Linear Mold Shrinkage	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D-955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D-785
Tensile Strength, Yield	42.7 MPa	6200 psi	ASTM D-638
Tensile Modulus	2.41 GPa	350 ksi	ASTM D-638
Flexural Strength	68.9 MPa	10000 psi	ASTM D-790
Flexural Modulus	2.59 GPa	375 ksi	ASTM D-790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -20.0 °C	@Thickness 0.125 in, Temperature -4.00 °F	
Gardner Impact	7.47 J/cm	14.0 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
	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)	74.00 °C	165.2 °F	ASTM D-648
Deflection Temperature at 1.8 MPa (264 psi)	71.00 °C	159.8 °F	ASTM D-648
Oxygen Index	36 %	36 %	ASTM D-2863

Descriptive Properties	Value	Comments
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Cell Classification: ASTM D-1784 Descriptive Properties	14333-D Value	NSF std. 14 Comments
Flow Ratio (Distance/Wall Thickness, 390-400°F)	130	Georgia Gulf Test

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