

Axiall 8150 Rigid PVC, Extrusion & Molding

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf 8150 is a special purpose rigid PVC compound designed for applications requiring the following properties:

WeatherabilityGlossImpact Strength & ToughnessFlame RetardantChemical ResistanceThermoformabilityExtrudability in Profile and SheetMoldability in Fittings and CapsInformation provided by Georgia GulfGeorgia Gulf became Axiall Corporation in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axiall-8150-Rigid-PVC-Extrusion-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.47 g/cc	1.47 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D-785
Hardness, Shore D	83	83	ASTM D-2240
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D-638
Tensile Modulus	2.62 GPa	380 ksi	ASTM D-638
Flexural Strength	68.9 MPa	10000 psi	ASTM D-790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D-790
Izod Impact, Notched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D-256
Tensile Impact Strength	126 kJ/m ²	60.0 ft-lb/in ²	ASTM D-1822
Dart Drop Total Energy	49.1 J/cm	0.0920 ft-lb/mil	23°C, C.125 Tup, Method A; ASTM D-4226

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 μm/m-°C @Temperature 20.0 °C	40.0 μin/in-°F @Temperature 68.0 °F	ASTM D-696
Deflection Temperature at 1.8 MPa (264 psi)	66.7 °C	152 °F	annealed; ASTM D-648

Descriptive Properties	Value	Comments
Cell Classification	14434323	ASTM D-4216
Flow Ratio (Distance/Wall Thickness, 390-400°F)	160	Internal

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