

Axiall 8132 Rigid PVC, Extrusion

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Georgia Gulf 8132 is a rigid PVC compound designed for applications where transparency is important. This product remains unchanged except for the coded name and was previously identified as 3132. It is widely used for clear profiles such as furniture trim, shower doors, and protected jalousie windows. High impact vacuum formed sheet applications are filled with 8132. Electronic packaging products are specified using this product. Twin screw machines may be used to convert 8132. Georgia Gulf 8132 is characterized by excellent physical properties and easy processing. It contains UV inhibitor to retard deterioration. It is available in fiberboard boxes, railroad bulk hopper cars or bulk truckloads. 8132 is available in a blue tint. It is easily colored by concentrates at the machine. 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-8132-Rigid-PVC-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D-785
Hardness, Shore D	78	78	ASTM D-2240
Tensile Strength, Yield	46.2 MPa	6700 psi	ASTM D-638
Tensile Modulus	2.45 GPa	356 ksi	ASTM D-638
Flexural Strength	78.46 MPa	11380 psi	ASTM D-790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D-790
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm, Temperature 23.0 °C	@Thickness 0.250 in, Temperature 73.4 °F	
Tensile Impact Strength	6.67 J/cm	12.5 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Tensile Impact Strength	187 kJ/m ²	89.0 ft-lb/in ²	ASTM D-1822

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C	40.0 µin/in-°F	ASTM D-696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa	71.7 °C	161 °F	

<small>(264 psi)</small> Thermal Properties	Metric	English	ASTM D-648 Comments
Flammability, UL94	V-0	V-0	At 0.040 inch(min. thickness)

Optical Properties	Metric	English	Comments
Haze	5.0 %	5.0 %	ASTM D-1003-61
Transmission, Visible	75 % @Thickness 3.17 mm	75 % @Thickness 0.125 in	pressed plaque; ASTM D-1003-61

Processing Properties	Metric	English	Comments
Melt Temperature	188 °C	370 °F	

Descriptive Properties	Value	Comments
Cell Classification	14444233	ASTM D-4216

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