

Axiall 7803 Rigid PVC, Extrusion High Impact Profile

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Information provided by Georgia GulfGeorgia Gulf became Axiall Corporation in 2013.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Axiall-7803-Rigid-PVC-Extrusion-High-Impact-Profile.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D-792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D-785
Hardness, Shore D	78	78	ASTM D-2240
Tensile Strength, Yield	36.7 MPa	5330 psi	ASTM D-638
Tensile Modulus	2.00 GPa	290 ksi	ASTM D-638
Flexural Strength	60.1 MPa	8710 psi	ASTM D-790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D-790
Izod Impact, Notched	1.39 J/cm	2.60 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm, Temperature -40.0 °C	@Thickness 0.250 in, Temperature -40.0 °F	
	2.03 J/cm	3.80 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	2.14 J/cm	4.00 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm, Temperature -28.9 °C	@Thickness 0.250 in, Temperature -20.0 °F	
	3.52 J/cm	6.60 ft-lb/in	ASTM D-256
	@Thickness 3.17 mm, Temperature -28.9 °C	@Thickness 0.125 in, Temperature -20.0 °F	
	4.81 J/cm	9.00 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm, Temperature -17.8 °C	@Thickness 0.250 in, Temperature 0.000 °F	
	7.21 J/cm	13.5 ft-lb/in	ASTM D-256
	@Thickness 6.35 mm, Temperature 0.000 °C	@Thickness 0.250 in, Temperature 32.0 °F	

Mechanical Properties	Metric	English	Comments
	7.53 J/cm @Thickness 3.17 mm, Temperature -17.8 °C	14.1 ft-lb/in @Thickness 0.125 in, Temperature 0.000 °F	ASTM D-256
	11.1 J/cm @Thickness 6.35 mm, Temperature 22.8 °C	20.8 ft-lb/in @Thickness 0.250 in, Temperature 73.0 °F	ASTM D-256
	11.6 J/cm @Thickness 3.17 mm, Temperature 0.000 °C	21.7 ft-lb/in @Thickness 0.125 in, Temperature 32.0 °F	ASTM D-256
	13.2 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	24.8 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D-256

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)	66.1 °C	151 °F	ASTM D-648

Processing Properties	Metric	English	Comments
Melt Temperature	191 - 196 °C	375 - 385 °F	

Descriptive Properties	Value	Comments
Cell Classification	16223	ASTM D-1784

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