Georgia Gulf 7803 Rigid PVC, Extrusion High Impact Profile

Categories: Polymer; Thermoplastic; Vinyl

Material Notes: Information provided by Georgia Gulf

Vendors: No vendors are listed for this material. Please click here if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	0.0477 lb/in³	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 Modulus	1.96 GPa	284 ksi	ASTM D-790
Flexural Strength	60.1 MPa	8710 psi	ASTM D-790
Izod Impact, Notched	11.1 J/cm	20.8 ft-lb/in	1/4" @ 73°F; ASTM D-256
	13.2 J/cm	24.8 ft-lb/in	1/8" @ 73°F; ASTM D-256
Izod Impact, Notched, Low Temp	1.39 J/cm	2.60 ft-lb/in	1/4" @-40°F; ASTM D-256
	2.03 J/cm	3.80 ft-lb/in	1/8" @ -40°F; ASTM D-256
	2.14 J/cm	4.00 ft-lb/in	1/4" @ -20°F; ASTM D-256
	3.52 J/cm	6.60 ft-lb/in	1/8" @ -20°F; ASTM D-256
	4.81 J/cm	9.00 ft-lb/in	1/4" @ 0°F; ASTM D-256
	7.21 J/cm	13.5 ft-lb/in	1/4" @ 32°F; ASTM D-256
	7.53 J/cm	14.1 ft-lb/in	1/8" @ 0°F; ASTM D-256
	11.6 J/cm	21.7 ft-lb/in	1/8" @ 32°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			
Cell Classification	16223		ASTM D-1784

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistant format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's disclaimer and terms of use regarding this information. Click here to view all the property values for this datasheet as they were originally entered into MatWeb.