

Boltaron 1050E

Polyvinyl Chloride

Boltaron Performance Products

Message:

Boltaron 1050E Type 1 PVC is an extruded, corrosion resistant, fire rated sheet with normal impact resistance for fabricating, machining and thermoforming applications. Because it is a monolithic structure that is extruded to desired thicknesses (not bonded laminations) it is not subject to delamination.

Since Boltaron 1050E is also inert to harsh chemicals across the entire pH range, it is especially suited to applications in which acids and caustics are handled. And because it does not ionize like stainless steel and high alloys, it is also ideal for applications involving ultrapure water, reagent-grade chemicals or other contamination-sensitive products.

Boltaron 1050E sheet is offered in lengths to 96 in. (2438 mm), widths to 48 in. (1219 mm) and thicknesses from .060 to 1 in.(1.52 to 25.4 mm), as well as in custom blank sizes.

Smooth on both sides and free of inclusions, it is available from stock in dark gray, and offered in custom colors, custom sizes, and/or with poly masking (low minimums).

The sheet carries a UL 94 V-0 fire rating and conforms to ASTM D-1784 standards, making it suitable for a wide range of application requirements. Boltaron 1050E is readily sawn, drilled, tapped, routed and otherwise machined using conventional tools, and can be brake formed (thinner gauges), heat welded and adhesive bonded and mechanically fastened, allowing rapid fabrication of a broad range of high-integrity parts and assemblies.

General Information			
Features	Acid Resistant		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Impact Resistance		
	Good Surface Finish		
Uses	Industrial Tanks		
	Liners		
	Machine/Mechanical Parts		
Agency Ratings	ASTM D 1784		
Appearance	Colors Available		
	Dark Grey		
Forms	Sheet		
Processing Method	Machining		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.032	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	51.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.5	%	
Break	130	%	
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Compressive Strength	74.7	MPa	ASTM D695
Shear Strength	63.7	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53 to 160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	68.9	°C	ASTM D648
Vicat Softening Temperature	34.4	°C	ASTM D1525
CLTE - Flow	5.3E-5	cm/cm/°C	ASTM D696
Specific Heat	837	J/kg/°C	ASTM C351
Thermal Conductivity	0.10	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.5E+14	ohms·cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.91		ASTM D150
Dissipation Factor (60 Hz)	0.018		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value		Test Method
Loss Index	0.0510		ASTM D150

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