

Boltaron 1050

Polyvinyl Chloride

Boltaron Performance Products

Message:

Ultra-high quality, corrosion resistant, fire- rated sheet up to 4 in. (102 mm) thick in gray, white and black for fabricating, machining and thermoforming applications

Boltaron 1050 sheet is a monolithic Type 1 PVC sheet that is free of pits, voids and inclusions, and not subject to delamination associated with competitive heavy gauge sheet.

It is inert to harsh chemicals across the entire pH range, making it suitable for applications in which acids and caustics are handled. Since 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 1050 sheet is offered in lengths to 96 in. (2438 mm), widths to 48 in. (1219 mm) and thicknesses from .032 to 4 in. (0.81 to 102 mm). Smooth on both sides, it is available from stock in dark gray (no minimums), and in white and black (low minimums). It is also available in custom colors, custom textures and 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, conforming to a wide range of application requirements.

Boltaron 1050 is readily sawn, drilled, tapped, routed and otherwise machined using conventional tools, and can be brake formed (thinner gauges), heat welded, adhesive bonded and mechanically fastened, allowing rapid fabrication of a broad range of high-integrity parts and assemblies.

General Information			
Features	Good Corrosion Resistance		
	Good Impact Resistance		
	Good Surface Finish		
Uses	Industrial Tanks		
	Liners		
	Machine/Mechanical Parts		
Agency Ratings	ASTM D 1784		
UL File Number	E54688		
Appearance	Black		
	Colors Available		
	Dark Grey		
	White		
Forms	Sheet		
Processing Method	Machining		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.032	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Durometer Hardness (Shore D)	82		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638

Tensile Strength (Yield)	51.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	3.5	%	
Break	130	%	
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (Yield)	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)	73.9	°C	ASTM D648
Vicat Softening Temperature	29.4	°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 (0.813 mm)	V-0		UL 94
Additional Information	Nominal Value		Test Method
Loss Index	0.0510		ASTM D150

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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