

Boltaron® 4225

FM 4910 CPVC

CORROSION
RESISTANT

CHARACTERISTICS

- Meets FM 4910
- Suitable for thermoforming
- Smooth, polished surface

USES

- Semiconductor cleanroom parts
- Machined parts
- Thermoformed parts

PERFORMANCE DETAILS

PROPERTIES

Specific Gravity (ASTM D792)	1.462	
Tensile Strength (ASTM D638)	7,360 psi	51 MPa
Modulus of Elasticity (ASTM D638)	3.9×10^5 psi	2,689 MPa
Flexural Strength (ASTM D790)	12,000 psi	83 MPa
Flexural Modulus (ASTM D790)	3.8×10^5 psi	2,620 MPa
Hardness Rockwell R (ASTM D785)	117	
Compression Strength (ASTM D695)	10,544 psi	73 MPa
Compression Modulus (ASTM D732)	3.28×10^5 psi	2,261 MPa
Water Absorption 24 hrs. (ASTM D570)	0.07%	
Izod Impact Notched (ASTM D256)	73 °F > 2 ft-lb/in	23 °C > 107 J/m

*Independent lab tests at 73°F (22.8°C) in dry conditions unless otherwise noted.

ELECTRICAL

Dielectric Strength (ASTM D149)	1,518 Volts/Mil.	
Dielectric Constant (ASTM D150)		
10 KHz	2.973	
100 KHz	2.913	
1 MHz	2.845	
Dissipation Factor (ASTM D150)		
10 KHz	0.012	
100 KHz	0.015	
1 MHz	0.017	

THERMAL

Thermal Expansion (ASTM D696)	6.3×10^{-5} °F	1.10×10^{-4} °C
Heat Deflection Annealed (ASTM D648)	205 °F @ 264 psi	96 °F @ 1.8 MPa

FLAMMABILITY

FM Global (FM 4910)	Approved
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SHEET SIZES

Lengths	to 96 in	2,438 mm
Widths	to 48 in	1,219 mm
Gauges	0.250 in to 1 in	6.35 mm to 25.4 mm

Custom Blank sizes, gauges on request

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DESIGN OPTIONS

Color	Bright white
Texture	Smooth polished surface (both sides)
Masking	Standard (both sides)
Minimum	500 lb

Attention: Avoid using cleaners containing quaternary ammonium compounds. In some cases, disinfectants containing quaternary ammonium compounds (QACs) could cause discoloration when left on at elevated temperatures and should be avoided for use on this grade of Boltaron material. For a full cleaning guide, visit www.boltaron.com/cleaning-and-disinfecting.

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RELIABILITY MEETS INNOVATION