

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 x 10 ⁵ psi | 2,689 MPa |
| Flexural Strength (ASTM D790) | 12,000 psi | 83 MPa |
| Flexural Modulus (ASTM D790) | 3.8 x 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 x 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 x 10 ⁻⁵ °F | 1.10 x 10 ⁻⁴ °C |
| Heat Deflection Annealed (ASTM D648) | 205 °F @ 264 psi | 96 °F @ 1.8 MPa |

FLAMMABILITY

| | |
|----------------------------|----------|
| FM Global (FM 4910) | Approved |
|----------------------------|----------|

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

4225
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Curbell Plastics is a proud supplier of SIMONA America materials.

DESIGN OPTIONS

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

SIMONA
boltaron

www.boltaron.com | +1 800 342 7444

RELIABILITY MEETS INNOVATION

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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