

SIMONA® CPVC 2000 Clear Sheet

Exceptional quality. Meets UL 94 V-0, ASTM E-84 and FM 4910 criteria.

FM 4910 listed, this blue tinted “window” grade affords superior quality for semiconductor cleanroom equipment sight windows, covers and other applications. It performs well in acids, oxidizers, and moderately aggressive alkaline environments. Its ASTM E-84 Class A rating has also led to its use in transparent glazing and partitions for data centers. SIMONA also offers FM 4910 listed bright white CPVC 4225 sheet, and a light gray industrial grade that meets UL 94 V-0 test criteria.

PROPERTIES: SIMONA® CPVC SHEET PRODUCTS

PROPERTY, unit of measure ¹	Test Method	TYPICAL VALUES		
		SIMONA® CPVC 2000 Clear blue	SIMONA® CPVC 4225 FM 4910 - white	SIMONA® CPVC 4125 Light gray
Specific Gravity	ASTM D792	1.55	1.46	1.51
Water Absorption, %	ASTM D570	<0.02	0.07	0.035
MECHANICAL				
Tensile Strength @ yield	ASTM D638	8,700 psi (60.0 MPa)	7,360 psi (50.8 MPa)	7,600 psi (52.4 MPa)
Elongation @ break, %	ASTM D638	—	—	—
Flexural Modulus	ASTM D790	435,000 psi (3,001.5 MPa)	380,000 psi (2,622 MPa)	350,000 psi (2,415 MPa)
Notched Izod Impact	ASTM D256	1.4 ft-lb/in. (74.8 J/m)	>2.0 ft-lb/in. (>106.8 J/m)	1-2 ft-lb/in. (53-107 J/m)
Hardness, Shore D	ASTM D2240	96	R117	R118
THERMAL				
Continuous Service Temperature	Maximum	195 °F (90.6 °C)	—	—
Melting Point	ASTM D3418	—	—	—
Coeff. of Expansion x10 ⁵	ASTM D696	—	6.3 in./in., °F (11.34 mm/mm, °C)	—
Heat Deflection Temp. @ 66 psi (0.45 MPa)	ASTM D648	—	—	—
Heat Deflection Temp. @ 264 psi (1.8 MPa)	ASTM D648	180 °F (82.3 °C)	205 °F (96.2 °C)	212 °F (100 °C)
FLAMMABILITY				
	UL 94	V-0	V-0	V-0 ²
	FM 4910	Yes	Yes	—
	ASTM E84	Class A	Class A	—

¹All tests at 73 °F (22.8 °C) in dry conditions unless otherwise noted.

²Based on 0.032 minimum thickness.

Advantages

- Meets FM 4910 and UL 94 V-0 criteria
- Meets ASTM E-84 Class A for data centers
- Optically clear, high light transmission
- No lead (Pb), heavy metals or EPA SARA 313 reportable components

Applications

- Cleanroom equipment windows
- Access panels, covers, guards
- Data center glazing, partitions

Configurations

- Standard sizes
 - 48 x 96 in. (1,220 x 2,440 mm)
- Gauges
 - 0.118 to 0.472 in. (3.0 to 12.0 mm)
- Custom sizes
 - Available on request
- Colors
 - Optically clear light blue tint

SIMONA offers the widest product range of PVC sheet and rod – FM 4910 rated sheet – chemical resistant materials from PVC, PP and PE to fluoropolymers – orthotics and prosthetics sheet – Boltaron® aircraft sheet – plus proven products for boat building, outdoor furniture and many other industries.

DISCLAIMER AND LIMITATION OF WARRANTY:

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