



StatiCon® GLAZING PC-300™ POLYCARBONATE



SciCron Technologies

PRODUCT CAPABILITIES:

STOCK SHAPES

- Sheet: 1.5mm (0.062"), 2mm (0.08"), 3mm (0.125"), 5mm (0.187"), 6mm (0.25"), 10mm (0.375"), 12mm (0.5")

ADVANTAGES:

- Hard, mar resistant, durable surface
- Cannot be tribocharged when properly grounded
- Humidity Independent Static Charge Control
- Superior Impact & Chemical Resistance, Flame Spread Properties

PRODUCT COLORS:

- Clear

APPLICATIONS INCLUDE

- Manufacturing & Assembly Operations for Charge Sensitive Electronic Components
- Cleanrooms for Semiconductor, Electronic, Micro-manufacturing
- Panels & Fabricated items such as Perimeter, Door Windows, etc.
- Prevent contamination-related rejects in ultra-clean manufacturing operations

GENERAL PROPERTIES	ASTM or UL Test	PC-300™ Typical Values
PHYSICAL		
Specific Gravity	D792	1.20
MECHANICAL		
Tensile Strength	-	-
Ultimate (psi)	D638	9,500
Elongation (%)	D638	100
Tensile Modulus (psi)	D638	340,000
Flexural Strength (psi)	D790	13,500
Flexural Modulus (psi)	D790	340,000
Compressive Strength (psi)	D695	12,500
IZOD Impact Strength (milled notch)	D256	16 ft-lb/inch of notch
THERMAL		
Deflection Temperature (264 psi load) (°F / °C)	D648	270 / 132
Vicat Softening Point (°F / °C)	D1525	310 / 154
Maximum Continuous Service Temp (°F / °C)	-	180 / 82
Coefficient of Thermal Expansion (in/in/°F)	D696	3.8x 10 ⁻⁵
Coefficient of Thermal Conductivity (BTU-in/hr-ft ² -°F)	Cenco-Fitch	1.35
Horizontal Burn (Flame Spread) (in/min)	D635	Less than 1.0
UL94 Rating	UL94	V-2 0.118-0.236 in V-0 ≥ 0.236in
ELECTRICAL		
Surface Resistivity (ohms/sq)	D257	10 ⁶ - 10 ⁸
Electrostatic Decay (sec)	FTS 101C, Method 4046.1	Less than 0.05
OPTICAL		
3mm Transparent Clear Transmittance - Total (%)	D1003	75
Haze (%)	D1003	Less than 5.0

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.

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