

PHYSICAL DATA

IMPERIAL

METRIC

Specific Gravity	1.37	—
Tensile Strength	10,000 psi	—
Compressive Strength	36,000 psi	248 MPa
Flexural Strength	17,000 psi	117 MPa
Hardness - M Scale	100	—
Bond Strength	1,900 psi	15 MPa
Shear Strength	14,000 psi	96 MPa
Flammability Rating	94HB	—
Maximum Operating Temperature	257°F	125°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	2.00	—
Water Absorption - 24 hours	2.00	—
Izod Impact Strength @ 49°C -LW	1.70	—

ELECTRICAL DATA

IMPERIAL

METRIC

Dissipation Factor - 106 cycles Condition A	0.048	—
Dielectric Constant - 106 cycles Condition A	5.50	—
Electric Strength V/MIL Condition A	550	—
Dielectric Breakdown -A	—	—
Permittivity -A	—	—

Atlas Fibre LLC provides this data as information only and does not imply any warranty for its use or application. Test data for an individual batch or product must be requested specifically and agreed to in writing and is available for a fee.

PRODUCT DESCRIPTION

Canvas Phenolic (CE) is a laminate sheet comprised of a phenolic resin binder and woven canvas (cotton) substrate. It qualifies to NEMA CE and MIL-I-24768/14.

With high mechanical strength and exceptional electrical insulation properties in dry or humid environments, this material is versatile for various electrical and mechanical applications due to its ease of fabrication.

AVAILABLE FORMS & STOCK SIZES

CE is stocked in sheet (0.010"–4.000" thick, up to 48" × 96"), rod (Ø 0.062"–6.000") and tube (Ø 0.250"–12.000" ID) in lengths to 48", and is supplied as precision blanks or CNC routed and Swiss-turned machined components.

CERTIFIED & TRACEABLE

Conforms to NEMA CE specifications. Batch test data ships with every order, verified annually by independent third-party lab assessment. No cut-to-size or sanding minimums.



TYPICAL APPLICATIONS

- › Impact-resistant mechanical parts
- › Gears, cams and rollers
- › Bushings, bearings and wear strips
- › Insulating spacers and pads
- › Rotating and reciprocating components

REQUEST A QUOTE

Stock Material. Precision Parts.

CE is available from stock, cut to size or precision machined to your specifications. Request a quote or call 847-674-1234 to connect with an Atlas Fibre representative.

atlasfibre.com/
material/ce

