

Globally Sourced CE Sheet

Data Sheet

Definition: GSCE is constructed from a woven cotton fabric with a phenolic resin binder.

Characteristics: GSCE is intended for mechanical applications requiring high impact strength. Applications include gears and bearings. It has lower mechanical strength than materials with glass substrates but has superior impact resistance when compared to paper-based products.

Certifications*: The manufactures of GSCE has informed Norplex-Micarta that the product meets NEMA LI 1-1998 Grade CE, ANSI/NEMA IM 60000-2021 Grade CE, MIL-I-24768/14 Type FBG and ASTM D 709 Type II Grade CE.

TYPICAL PROPERTIES

| GENERAL PHYSICAL PROPERTIES | Thickness | UNITS | VALUE |
|--|------------------|----------|--------|
| Izod Impact Strength Lengthwise – ASTM D229 E-48/50 | 0.125" and above | ft-lb/in | 1.6 |
| Izod Impact Strength Crosswise – ASTM D229 E-48/50 | 0.125" and above | ft-lb/in | 1.4 |
| Flexural Strength Lengthwise – ASTM D229 Condition A | 0.031" | psi | 17,000 |
| | 0.062" | psi | 17,000 |
| | 0.125" | psi | 17,000 |
| Flexural Strength Crosswise – ASTM D229 Condition A | 0.031" | psi | 14,500 |
| | 0.062" | psi | 14,500 |
| | 0.125" | psi | 14,500 |
| Bond Strength – ASTM D229 Condition A | 0.500" and above | lb | 2,200 |
| Bond Strength – ASTM D229 D-48/50 | 0.500" and above | lb | 1,800 |
| Water Absorption – ASTM D229 D1-24/23 | 0.031" | % | 4.20 |
| | 0.062" | % | 2.10 |
| | 0.125" | % | 1.50 |

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TYPICAL PROPERTIES

| THERMAL & ELECTRICAL PROPERTIES | Thickness | UNITS | VALUE |
|--|------------------|--------------|--------------|
| Flammability Rating – U.L. 94 Condition A | 0.031" and above | Class | HB |
| Breakdown Voltage – ASTM D229 Condition A | 0.031" - 1.000" | kV | 35 |
| Breakdown Voltage – ASTM D-48/50 | 0.031" - 1.000" | kV | 2.5 |

* Product Certification. PRODUCT is import material, certified via manufacturers documentation to any standard under which it is sold. Norplex-Micarta, at its sole discretion, may substitute domestic or alternate source material in order to fill order requirements. Norplex-Micarta will have no obligation to notify customers of a change in material source. Substitution of PRODUCT does not wave any of these [NORPLEX-MICARTA SUPPLEMENTAL TERMS](#). PRODUCT will not be tested lot by lot; therefore, neither section 4.5 of MIL-I-24768 nor section 13 of ASTM D709 will apply.

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values" and are not to be considered "specification values". Tests of a specific lot may have different results.

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