

Globally Sourced C Sheet

Data Sheet

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

Characteristics: GSC 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 GSC has informed Norplex-Micarta that the product meets NEMA LI 1-1998 Grade C, ANSI/NEMA IM 60000-2021 Grade C, MIL-I-24768/16 Type FBM and ASTM D 709 Type II Grade C.

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	Thickness	UNITS	VALUE
Izod Impact Strength Lengthwise – ASTM D229 E-48/50	0.125" and above	ft-lb/in	2.5
Izod Impact Strength Crosswise – ASTM D229 E-48/50	0.125" and above	ft-lb/in	2.2
Flexural Strength Lengthwise – ASTM D229 Condition A	0.031"	psi	17,500
	0.062"	psi	17,500
	0.125"	psi	17,500
Flexural Strength Crosswise – ASTM D229 Condition A	0.031"	psi	16,500
	0.062"	psi	16,500
	0.125"	psi	16,500
Bond Strength – ASTM D229 Condition A	0.500" and above	lb	2,100
Bond Strength – ASTM D229 D-48/50	0.500" and above	lb	1,800
Water Absorption – ASTM D229 D1-24/23	0.031"	%	7.00
	0.062"	%	4.00
	0.125"	%	3.00

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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	18

* 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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