



Epoxy Glass Laminates

Micarta®

NEMA Grade G-3

Micarta® Grade H-19989

Product Description:

Combines excellent mechanical strength with good dimensional stability for use in structural applications. Also high impact and good heat resistance. Good chemical resistance

Applications:

- Gaskets and seals • Replacement for asbestos • Electrical Motor Insulation

Typical Properties:

Density	.070 lb/in ³	Water Absorption	0.8%
Hardness (Rockwell)	100	Bonding Strength	1,500psi
Compressive Strength (with grain)	55,000psi	Flexural Strength	42,000psi
Tensile Strength (with grain)	34,000psi	Impact Strength	11.0 ft-lb/in
Shear Strength (flatwise)	(N/A)	Volume Resistivity	1.3x10 ⁴
Dielectric Strength (perpendicular)	460vpm	Arc Resistance	180 sec

Plate	Micarta Grade	NEMA Grade	Specification Number & Type	Construction Resin & Substrate	Serv. Mech.	Temp °C Elec	Color
	H-19989	G-3	MIL-I-24768/18-GPG	Phenolic/Glass	170	140	Natural

Grade H-19989	36" x 72"	36" x 48"	48" x 48"	48" x 96"	48" x 108"
Nominal Thickness / ins	N/A	.031-5	.031-5	.031-5	.031-5

NEMA Grade G-5

Micarta® Grade 259-2

Product Description:

This is a high strength and arc resistant material. It has excellent electrical properties under dry conditions. Meets U.L. 94V-0 Flame Class

Applications: Switchboard panels • Arc barriers • Circuit breaker parts.

Typical Properties:

Density	.072 lb/in ³	Water Absorption	.40%
Hardness (Rockwell)	115M	Bonding Strength	1,800psi
Compressive Strength (with grain)	65,000psi	Flexural Strength	50,000psi
Tensile Strength (with grain)	40,000psi	Impact Strength	10.0 ft-lb/in
Shear Strength (flatwise)	30,000psi	Volume Resistivity	6.0x10 ⁷
Dielectric Strength (perpendicular)	300vpm	Arc Resistance	180 sec

Plate	Micarta Grade	NEMA Grade	Specification Number & Type	Construction Resin & Substrate	Serv. Mech.	Temp °C Elec	Color
	H-259-2	G-5	MIL-I-24768/8-GMG	Melamine/Glass	140	N/A	Gray

Grade H-259-2	36" x 72"	36" x 48"	48" x 48"	48" x 96"	48" x 108"
Nominal Thickness / ins	.031-4.	.031-4	.031-4	.031-4	.031-4