



# THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	NEMA Grade G-7 Glass Silicone Laminate		
Description:	NEMA Grade G-7 materials are glass fabric-reinforced laminates with a silicone resin binder. Glass silicone insulating materials offer excellent thermal resistance (up to 250°C) and arc resistance. These grades find application as electric furnace insulation, circuit breaker parts, switchboard panels, and arc barriers.		
Standards:	NEMA LI-1: Grade G-7	IEC 60893: SI GC 201 (sheet & tube)	MIL-I-24768/17-GSG
Availability:		English Units (in)	SI Units (mm/cm)
	Laminate Sheets:	Thickness:	0.125 to 1.25 (mm)
		Sheet Sizes:	48 x 96 to 48 x 120 (cm)
	Convolute Tubes:	NEMA Grade G-7 convolute tubes are available from The Gund Company in nearly any custom size of inside and outside diameter, per customer requirements.	
Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.		

Key Characteristics	Units - English (SI)	Typical Values
Standard Color	--	White <sup>1</sup>
Specific Gravity	lb/in <sup>3</sup> (g/cc)	0.19

<sup>1</sup> Custom colors are available upon request

## NEMA LI-1 G-7 Properties

Key Characteristics	Test Method	Units - English (SI)	Typical Values
Moisture Absorption (.062")	ASTM D-570, A	%	0.19
Flexural Strength (.25")	ASTM D-790, A	psi (MPa)	18,000 (124)
			15,000 (103)
IZOD Impact Strength	ASTM D-256, A	ft.-lbs./in.	17.0
			8.5
Arc Resistance (.125")	ASTM D-495, A	Seconds	200
Compressive Strength (Flat-wise)	ASTM D-695, A	psi (MPa)	45,000 (310)
Flammability Rating	UL94	Class	V-0
Breakdown Voltage (.062) (Borth Parallel Step Method)	ASTM D-149, A ASTM D-149, D-48/50	kV	55 34
Dielectric Strength	ASTM D-149, A	V/mil.	350
Permittivity (.062")	ASTM D-150, D-24/23	--	4.34
Dissipation Factor (.062")	ASTM D-150, D-24/23	--	0.0017

All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage. TGC0819