



MANUFACTURERS OF  
**ELECTRICAL INSULATION MATERIALS**  
 INSULATING COMPONENTS FOR  
 POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

- Item:** Glass Polyester Laminate Sheet NEMA GPO-3, NOHL Grade GPO-3
- Description:** NOHL GPO3 is a track and flame resistant NEMA Grade GPO-3. This UL recognized product (QMFZ2.E101063) offers excellent thermal endurance at an affordable price.
- Standards:** NEMA LI-1 [GPO-3] IEC 60893 [UPGM 203]
- |                      |                          |  |                                 |
|----------------------|--------------------------|--|---------------------------------|
|                      |                          | English Units  | SI Units                        |
| <b>Availability:</b> | Laminate Sheets:         | Thickness: .118" - 2"  | 3mm - 50.8mm                    |
|                      |                          | Sheet Sizes: 36" x 72"<br>48" x 96"  | 92cm x 183 cm<br>122cm x 244 cm |
|                      | <b>Fabricated Parts:</b> | The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers. |                                 |

Key Characteristics:	Test Method	Units - English (SI)	NEMA Standard	Typical Values
Standard Color				Red
Density		Lbs/in <sup>3</sup> (g/cc)		.065 (1.8)
Water Absorption, 1/8" thk	D-570	%	0.50	0.25
Tensile Strength	D-638	psi (MPa)	8,000 (55)	9,000 (62)
Compressive Strength	D-695 (flatwise)	psi (MPa)	30,000 (206)	37,000 (255)
Flexural Strength (Lengthwise)	D-790	psi (MPa)	18,000 (124)	22,000 (152)
Bond Strength (1/2" thick)	D-229	lbs. (kg)	850 (385)	1080 (490)
Shear Strength	D-732	psi (MPa)		13,000 (90)
Incline Plane Track Resistance	D-2303	minutes	300	1000
Impact Strength IZOD (Edgewise)	D-256 (notched)	ft-lbs/in	8.0	9.0
Arc Resistance	D-495	Sec	150	192
Dielectric Strength (Perp. 1/16", oil)	D-149, (A-short)	V/mil (kV/mm)	300 (11.8)	550 (21.7)
Breakdown Voltage (Parallel Pin, oil)	D-149, (stepped)	kV	40	50
Flammability	UL 94	Class	V-0	V-0

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 the 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.