

**LAMICOR® Grade GP-9105**

A Flame retardant polyester - glass laminate possessing high mechanical strength, good electrical properties and moderate heat resistance. Exceeds the requirements for NEMA Grade GPO-1..

LAMICOR® Grade GP-9206

A Flame retardant polyester - glass laminate possessing high mechanical and electrical properties as well as excellent arc and tracking resistance. Has U.L. recognition as a sole support for current carrying parts. (U.L. File No. E-46319). Exceeds the requirements for NEMAGrade GPO-2.

LAMICOR® Grade GP-9306

A Flame retardant polyester - glass laminate possessing high mechanical and electrical properties as well as excellent arc and tracking resistance. Has U.L. recognition as a sole support for current carrying parts. (U.L. File No. E-46319). Exceeds the requirements for NEMAGrade GPO-3.

| Typical Data (1/8" thick) PHYSICAL PROPERTIES: | ASTM Method | GP-9206 | GP-9306 | GP-9105 |
|---|----------------|------------------------|------------------------|------------------------|
| Density, gm/c.c. | D792 | 1.80 | 1.80 | 1.95 |
| Weight, lbs./sq.ft. | - | 1.15 | 1.15 | 1.24 |
| Thermal Conductivity, cal/sec/cm2/°C/cm | C177 | 8.0 x 10 ⁻⁴ | 8.0 x 10 ⁻⁴ | 8.0 x 10 ⁻⁴ |
| U.L. Temperature Index °C Electrical | - | 120 | 120 | - |
| (1/16" & over) °C Mechanical | - | 140 | 140 | - |
| Flame Resistance, (1/16"-15/32" thick) | U.L. 94 | V-0 | V-0 | - |
| Flame Resistance, Ignition Time | D229 | 90 | 90 | - |
| (1/2"-1" thick) Burning Time | Meth.II | 608 | 608 | - |
| Heat Resistance, Continuous, °C | | - | - | 130 |
| 1/8" | | - | - | 0.08 |
| 1/2" | | - | - | 0.02 |
| Water Absorption, %, 24 hrs. 1/16" | D570 | 0.13 | 0.12 | - |
| 1/8" | | 0.19 | 0.18 | - |
| 1/2" | | 0.02 | 0.01 | - |
| MECHANICAL PROPERTIES: | | | | |
| Tensile Strength, psi, lengthwise | D638 | 9,000 | 9,000 | 9,000 |
| crosswise | - | 9,000 | 9,000 | 9,000 |
| Flexural Strength, psi, lengthwise | D790 | 21,500 | 21,500 | 21,000 |
| crosswise | | 22,000 | 22,500 | 22,000 |
| Compressive Strength, psi, flatwise | D695 | 30,000 | 33,000 | 30,000 |
| Izod Impact Strength edgewise length | D256 | 8.2 | 8.3 | 8.2 |
| ft.lbs./in.notch cross | - | 8.4 | 8.5 | 8.4 |
| Rockwell Hardness, (1/4" thick) | D785 | M-105 | M-105 | M-112 |
| Bond Strength, lbs. (1/2" thick) | D229 | 1200 | 1200 | 1500 |
| ELECTRICAL PROPERTIES: | | | | |
| Dielectric Str.,Perp. (1/16" thick) | D149 | 400 | 400 | 400 |
| S.T., V.P.M., in oil (1/8" thick) | - | 350 | 350 | 350 |
| Dielectric Str., Par. Cond A | D149 | 65 | 65 | 65 |
| S x S, KV, in oil Cond D48/50 | - | 30 | 30 | 30 |
| Dissipation Factor, 60 Hz, Cond A (1/16" thick) | D150 | 0.02 | 0.02 | 0.01 |
| Dielectric Constant, 60 Hz, Cond A (1/16" thick) | D150 | 4.95 | 4.1 | 4.5 |
| Arc Resistance, Sec. | D495 | 155 | 180 | 140 |
| Inclined Plane Track Resistance, min, (1/4") | D2303 | 300 | 400 | - |