



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

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|-------------------|--|---|--|
| Item: | Arboron (High Arc Resistant Panel Board) | | |
| Description: | Arboron is a cellulose based quality laminate with thermosetting resins, consolidated under high pressure and temperature into dense, uniform sheets with good electrical and mechanical properties. The melamine surface of Arborong provides excellent chemical and abrasion resistance. It has a very high strength to weight ratio (one-half of the weight of aluminum) and is relatively easy to fabricate. | | |
| Availability: | Laminate Sheets: | English Units (in) | SI Units (mm/cm) |
| | Thickness: | .125, .188, .25, .313, .375, .5, .75, 1, 1.25 | 3.18, 4.78, 6.35, 7.95, 9.53, 12.7, 19.1, 25.4, 31.75 (mm) |
| | Sheet Sizes: | 48 x 96, 60 x 120, 60 x 144 | 122 x 244, 152 x 305, 152 x 366 (cm) |
| Fabricated Parts: | The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers. | | |

| Key Characteristics | Test Method | Units - English (SI) | Typical Values |
|----------------------------------|-------------|-----------------------------|------------------------|
| Standard Color | -- | -- | Black |
| Density | -- | lbs./in ³ (g/cc) | 0.05 (1.38) |
| Water Absorption (.125") | ASTM D-570 | PSI (MPa) | 0.9 |
| Tensile Strength | ASTM D-638 | PSI (MPa) | 22,000 (152) |
| Compressive Strength (Flat-wise) | ASTM D-695 | PSI (MPa) | 45,000 (310) |
| Flexural Strength | ASTM D-790 | PSI (MPa) | 30,000 (207) |
| Bond Strength | ASTM D-732 | psi (MPa) | 2,000 (13.79) |
| Relative Temperature Index | -- | °C | 95 |
| Flammability Rating (.240) | UL94 | ft.-lbs./in. | V-0 |
| IZOD Impact Strength (Edgewise) | ASTM D-256 | ft-lb/in | 1.0 |
| Arc Resistance | ASTM D-495 | Seconds | 88 |
| Dissipation Factor (.125") | ASTM D-150 | -- | .0827 |
| Dielectric Strength (.125") | ASTM D-149 | V/mil | 439 |
| Volume Resistivity (.125") | ASTM D-257 | Ohms-cm | 5.7 x 10 ¹¹ |
| Comparative Track Index | UL | V | 600 |
| High Ampere Arc Ignition | UL | -- | 200+ |
| Hot Wire Ignition | UL | Seconds | 107 |