# THE GUND COMPANY

*MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS*

## RotoGuard® Turn Insulation

| Item: | RotoGuard® TIB | | |
|---|---|---|---|
| **Description:** | RotoGuard® TIB is a pressure sensitive, B-Stage thermoset epoxy adhesive with a release liner. RotoGuard® TIB bonds to copper with excellent tensile shear strength at room temperatures to at least 160ºC. Baking is required to cure the epoxy adhesive. | | |
| **Application:** | Rotor turn insulation | | |
| **Advantages:** | RotoGuard® TIB offers three significant advantages over traditional b-stage epoxy turn insulation:<br>1) Labor Savings: RotoGuard® TIB eliminates the need for double sided tape or application of an additional adhesive (resin). The superior tackiness of RotoGuard® TIB prevents movement during installation. Once placed, the turn insulation can be re-positioned several times without loosing tackiness.<br>2) Time Savings: RotoGuard® TIB cures at a lower temperature, saving time with shorter heating and cooling times.<br>3) Bonding: In addition to offering a superior bond to copper, RotoGuard® TIB is a Class F (Meets 155 °C) insulating material once cured. | | |
| **Availability:** | | English Units (in) | SI Units (mm/cm) |
| | RotoGuard® EG* Thickness: | 0.005 / 0.007 / 0.010 / 0.013 | 0.13 / 0.18 / 0.25 / 0.33 (+/-) |
| | Nomex® 410* Thickness: | 0.003 / 0.005 / 0.007 / 0.010 | 0.08 / 0.13 / 0.18 / 0.25 (+/-) |
| **Fabricated Parts:** | The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. | | |

* Adhesive adds a nominal (0.0005” / 0.0127 mm) thickness

| Key Characteristics | Standard Characteristics |
|---|---|
| **Adhesive Color** | Blue |
| **Adhesive Tack** | Steady Hold & Tackiness at Room Temperature |
| **Dissipation Factor Recommended Winding Conditions*** | 65-80 °F (16-26.5 °C) |

* Copper temperature

| Recommended Cure Schedule | Cure Time | Temperature |
|---|---|---|
| **Note:** The actual length of time required to bring the entire assembly up to curing temperature must be added to the recommended cure time in order to determine a suitable curing schedule for a particular assembly. | 4 Hours | ≥ 95°C |
| | 2 Hours | ≥ 120°C |
| | 1 Hour | ≥ 160°C +10/-0°C |