



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## RotoGuard® Turn Insulation



<b>Item:</b>	<b>RotoGuard® TIB</b>		
<b>Description:</b>	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 160°C. Baking is required to cure the epoxy adhesive.		
<b>Application:</b>	Rotor turn insulation		
<b>Advantages:</b>	<p>RotoGuard® TIB offers three significant advantages over traditional b-stage epoxy turn insulation:</p> <ol style="list-style-type: none"> <li>1) <b>Labor Savings:</b> 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 losing tackiness.</li> <li>2) <b>Time Savings:</b> RotoGuard® TIB cures at a lower temperature, saving time with shorter heating and cooling times.</li> <li>3) <b>Bonding:</b> In addition to offering a superior bond to copper, RotoGuard® TIB is a Class F (Meets 155 °C) insulating material once cured.</li> </ol>		
<b>Availability:</b>		<b>English Units (in)</b>	<b>SI Units (mm/cm)</b>
	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 (+/-)
<b>Fabricated Parts:</b>	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
<b>Adhesive Color</b>	Blue
<b>Adhesive Tack</b>	Steady Hold & Tackiness at Room Temperature
<b>Dissipation Factor Recommended Winding Conditions*</b>	65-80 °F (16-26.5 °C)

\* Copper temperature

Recommended Cure Schedule	Cure Time	Temperature
<b>Note:</b> 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

*Data supplied above are typical values and are not to be considered specification values. 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 contemplated application, 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.*