



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## VARTM VIL 130

<b>Item:</b>	<b>Vacuum Infused Laminates (VIL)</b>		
<b>Description:</b>	Vacuum Infused Laminates (VIL) is a custom molded composite material. This product is suitable for molded end caps, rings, collars, and other applications where dielectric strength and mechanical properties are required. Two different standard grades are available to satisfy specific thermal and mechanical performance requirements.		
<b>Availability:</b>	<b>Thickness:</b>	English Units (in)	SI Units (mm)
		0.062 - 2.00	1.575 - 50.08
	<b>Fabricated Parts:</b>	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.	

Key Characteristics <sup>1</sup>	Test Method	Units - English (SI)	Typical Values	
			VIL 130	VIL 155
Standard Color <sup>2</sup>	--	--	Natural	Natural
Density	--	lb/in (g/cc)	0.063 (1.75)	0.064 (1.77)
Comparable Material Standard	--	--	GPO-1, UPGM 201	GPO-1, UPGM 203
Flexural Strength	ASTM D-790	psi (MPa)	> 41,000 (283)	> 45,000 (310)
Tensile Strength	ASTM D-638	psi (MPa)	> 30,000 (207)	> 35,000 (241)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	> 45,000 (310)	> 50,000 (345)
Breakdown Voltage	ASTM D-149	kV	> 45	> 45
Dielectric Strength (0.062") $\perp$	ASTM D-149	V/mil (kV/mm)	450 (17.7)	450 (17.7)
Arc Resistance	ASTM D-495	Seconds	>130	>130
LOI	--	%	45	32
Water Absorption	ASTM D-570	%	0.025	0.025
Flammability	--	--	HB	HB
Temperature Class	--	°C	130	155

<sup>1</sup> Customized material properties are available upon request.

<sup>2</sup> Custom colors can be created per customer request

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

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.