



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

VARTM VIL 130

Item:	Vacuum Infused Laminates (VIL)		
Description:	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.		
Availability:	Thickness:	English Units (in)	SI Units (mm)
		0.062 - 2.00	1.575 - 50.08
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.	

Key Characteristics ¹	Test Method	Units - English (SI)	Typical Values	
			VIL 130	VIL 155
Standard Color ²	--	--	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")	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

¹ Customized material properties are available upon request.

² Custom colors can be created per customer request

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

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