



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

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:		English Units (in)	SI Units (mm)
	Thickness:	0.062 to 2.00	1.575 to 50.08
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact drawings and specifications of our customers.	

Key Characteristics ¹	Test Method	Units - English (SI)	Typical Values	
			VIL130	VIL155
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 (Flat-wise)	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

¹ Customized material properties are available upon request.

² Custom colors can be created per customer request