



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	NEMA Grade GPO-1 (APO-1 from The Gund Company)		
Description:	APO-1 from The Gund Company is a unique blend of standard NEMA GPO-1. This grade of low-pressure laminate is made from fiberglass mat reinforced, polyester composite.		
Standards:	NEMA LI-1: GPO-1		IEC 60893: UPGM 201
Availability:			English Units (in)
	Laminate Sheets:	Thickness:	SI Units
		Sheet Sizes:	
	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.	

Key Characteristics	Test Method	Units - English (SI)	NEMA Standard	Typical Values
Standard Color	--	--	--	Brown
Density	--	lb/in ³ (g/cc)	N/A	0.066 (1.83)
Water Absorption (1/8" thick)	ASTM D-570	%	0.7	0.25
Tensile Strength	ASTM D-638	psi (MPa)	8,000	9,500 (66)
Compressive Strength (flatwise)	ASTM D-695	psi (MPa)	30,000	33,000 (227)
Flexural Strength	ASTM D-790	psi (MPa)	18,000	20,000 (138)
Shear Strength	ASTM D-732	psi (MPa)	N/A	13,000 (89)
Bond Strength	ASTM D-229(A)	lbs (kg)	850	1,200
Thermal Class	--	--	--	Class B (130°C)
Flammability	UL 94	--	HB	HB
IZOD Impact Strength (Edgewise)	ASTM D-256	ft-lbs/in	8	8.5
Arc Resistance	ASTM D-495	Seconds	100	180
Dielectric Strength (1/16" Perpendicular in oil)	ASTM D-149 (A-short)	V/mil (kV/mm)	300	450 (17.6)
Breakdown Voltage (Parallel Pin, in oil)	ASTM D-149 (A-stopped)	kV	40	> 40
UL File Number	--	--	--	E323105