

ELECTRICAL SHEET
TECHNICAL DATA

PROTECTOLITE™ Series 4000, GPO-3, electrical grade sheets are manufactured under high heat and pressure in matched metal moulds. Products are available in a wide variety of custom moulded shapes. Series 4000 has excellent fire and track resistance and meets or exceeds NEMA Standards. Due to a combination of high strength and flame resistance, Series 4000 products are used in the electrical industry for items such as insulation components for switchgear and other industrial electrical equipment.

UL File No. E132409

<u>PROPERTIES:</u>	<u>VALUES:</u>	<u>METHOD:</u>
FLAMMABILITY (1/8")	V-O	UL94
TENSILE STRENGTH,	12-14,000 psi	ASTM D790
TENSILE MODULUS,	1.7-2.0 x 10 ⁶ psi	ASTM D790
FLEXURAL STRENGTH,	20-25,000 psi	ASTM D790
FLEXURAL MODULUS,	1.0-2.0 x 10 ⁶ psi	ASTM D790
COMPRESSIVE STRENGTH	30,000 psi	ASTM D790
WATER ABSORPTION	0.4%	ASTM D570
(24 Hours @ 23°C)		
IZOD IMPACT, notched,	>10 ft-lb/in	ASTM D256
ARC RESISTANCE	180	ASTM D495
TRACK RESISTANCE	500+	ASTM D2303
DIELECTRIC STRENGTH	437 VPM	ASTM D149
(perp. oil S.T.)		
FLAME RESISTANCE, VERTICAL BURN	0	ASTM D229
FLAMMABILITY	V-O	UL94
NFPA 130		
• FLAME SPREAD INDEX	<15	ASTM E162
• SMOKE EMISSIONS, D _s		ASTM E662
○ 90 seconds	<10	
○ 4 minutes	<10	
Relative Thermal Index (RTI)		
• Electrical (°C)	105	UL 746B
• Mechanical (°C)	130	UL 746B
SPECIFIC GRAVITY	1.85	ASTM 792

STANDARD COLOURS:
 RED, WHITE, NATURAL / ALL COLOURS

STANDARD SIZES:
 -36"x72", 37"x73" and 48"x96" sheets, 1/32" - 4", NEMA & plus NEMA Tolerances. All sheets are HOMOGENEOUS in thickness, NO BONDING or JOINTS

CUSTOM SIZES:
 -Up to 50"x 96", 1/32" up to 4", NEMA & plus NEMA Tolerances.
 Metric thicknesses are also available.

DELIVERY:
 -Stock for standard sheets, custom sizes as required.

The property values are based upon tests believed to be reliable, performed on laboratory test plaques. However, no liability is assumed resulting from its use. We suggest that the user perform tests in order to establish the material suitable for the specific application.

January 2026