



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
 POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Glass Polyester Laminate Sheet and Shapes, NOHL Grade LST

Description: NOHL LST is a track and flame resistant GPO-3. This product also has low smoke toxicity and offers excellent UV resistance for outdoor use. This grade is suitable for New York City Transit Authority and other mass transit system applications.

Availability:	Laminate Sheets:	Thickness:	English Units	SI Units
			.118" - 2"	3mm- 50.8mm
		Sheet Sizes:	36" x 72" 48" x 96"	92cm x 183 cm 122cm x 244 cm

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)	NYCTA Standard	Typical Values							
Standard Color					Gray							
Density			Lbs/in ³ (g/cc)		.065 (1.8)							
Water Absorption, 1/4" thk		D-570	%	0.20 max	0.12							
Tensile Strength		D-638	psi (MPa)	12,000 (83)	13,000 (90)							
Compressive Strength		D-695 (flatwise)	psi (MPa)	30,000 (206)	37,000 (255)							
Flexural Strength		D-790	psi (MPa)	20,000 (138)	22,000 (152)							
Bond Strength (1/2" thick)		D-229	lbs. (kg)	850 (385)	1000 (450)							
Incline Plane Track Resistance		D-2303	minutes	600 minimum	>600							
Impact Strength IZOD (Edgewise)		D-256 (notched)	ft-lbs/in	10.0	10.5							
Arc Resistance		D-495	Sec	180	>180							
Dielectric Strength (1/4" Perp. oil)		D-149, (A-short)	V/mil (kV/mm)	170 (6.7)	>200 (7.9)							
Breakdown Voltage (Parallel Pin, oil)		D-149, (A- step)	kV	40	>50							
Flammability		UL 94	Class	V-0	V-0							
Radiant Panel Flame Spread Index		E-162		60 max	11							
Optical Smoke Density (within 4 minutes)		E-84	%	200 max	60							
Smoke Toxicity	Mil-M-14	Units ppm	HCl	HBr	HCN	H ₂ S	C ₂ H ₃ CL	NH ₃	Aldehyde	NOx	CO ₂	CO
			0	0	0	0	<1	0	18	18	2800	175

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