



MANUFACTURERS OF  
ELECTRICAL INSULATION MATERIALS

INSULATING COMPONENTS FOR  
POWER SYSTEMS EQUIPMENT

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## MATERIAL DATA SHEET

**Item:** HST-II High Temperature Glass Polyester

**Description:** HST-II is a specialty grade glass mat, polyester resin insulation material that carries UL thermal recognition of 220°C electrical and 210°C mechanical. HST-II also qualifies as an IEEE 220°C Class R material.

<b>Availability:</b>	Molded Sheets:	Thickness:	English Units 0.032" to 2.0"	SI Units 0.8 mm to 50.8 mm
		Sheet Sizes:	36" x 72", 48" x 96"	94 cm x 185 cm, 122 cm 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)	Typical Values
Standard Color	--	--	Light Brown
Specific Gravity	ASTM D-792	lbs./in <sup>3</sup> (g/cc)	0.058 (1.61)
Water Absorption (.125")	ASTM D-570	%	0.3
Tensile Strength	ASTM D-638	psi (MPa)	13,000 (90)
Compressive Strength, Flatwise	ASTM D-695	psi (MPa)	33,000 (228)
Flexural Strength, Lengthwise	ASTM D-790	psi (MPa)	25,000 (172)
Flexural Modulus of Elasticity	ASTM D-790	--	1.7 x 10 <sup>6</sup>
Shear Strength	ASTM D-732	psi (MPa)	14,000 (97)
Bond Strength (.50")	ASTM D-229	psi (MPa)	1,400 (10)
Flammability	UL 94	--	HB
Flame Resistance Ignition Time	ASTM D-229-11	Seconds	77
Flame Resistance Burning Time	ASTM D-229-11	Seconds	256
Izod Impact Strength, Edgewise	ASTM D-256	ft.-lbs./in.	12.0
Barcol Hardness	--	--	52
Temperature Class	--	°C	220

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