



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
POWER SYSTEMS EQUIPMENT

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MATERIAL DATA SHEET

Item: Thermalate Mold Platen Insulation Grades H320 & H330 30

Description: Thermalate Grades are compression molded glass mat reinforced thermoset polyester laminates. Their physical properties include: high temperature resistance, high compressive strength, low thermal conductivity, low moisture absorption, and durability. These laminates provide for improved temperature control as well as uniformity of temperature which reduces or eliminates cold spots in a mold.

Availability:	Molded Sheets:	Thickness:	English units ¼" to 2.0"	SI Units 0.8mm – 50.8mm
		Sheet Sizes:	36" x 72", 48" x 96"	94cm x 185cm, 1.22m x 2.44m

Fabricated Parts: The Gund Company custom fabricates insulation materials to the exact specifications and drawings of our customers.

Key Characteristics:	Units - English (SI)	Grade H320	Grade H330
Standard Color		Brown	Orange
Water Absorption (% @ 3/8", 95mm sanded)	%	0.25	0.25
Compressive Strength: Condition A	psi (MPa)	42,000 (290)	44,000 (303)
@ 300°F / 149 °C	psi (MPa)	23,400 (161)	31,700 (219)
@ 400°F / 204 °C	psi (MPa)	16,100 (111)	30,600 (211)
@ 500°F / 260 °C	psi (MPa)	N/A (N/A)	26,200 (181)
Maximum Service Temperature		232°C (450°F)	288°C (550°F)
Coefficient of Thermal Expansion	in./in./°F x 10 ⁻⁵	2.40	2.84
IZOD Impact Strength (Notched)	Ft lbs/in (J/cm)	10 (5.4)	13 (7)
Flexural Strength	psi (Mpa)	22,000 (152)	22,800 (157)
Thermal Conductivity	BTU/Hr/Ft ² /In ^{°F} (W/m ² *k)	1.90 (.27)	1.85 (.26)

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