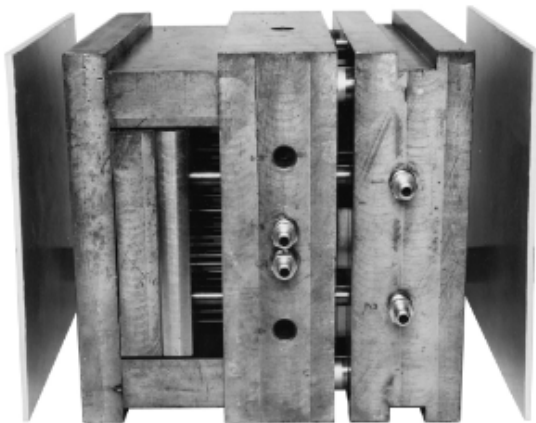


# MOLD INSULATOR SHEETS

REDUCES THERMAL CONDUCTIVITY  
BETWEEN MOLD & PLATEN



## 2 TYPES AVAILABLE

### FEATURES: TYPE I & TYPE II

- Type I, Integrated Mica Flakes, **No Asbestos!**
- Type II, Glass Reinforced Polyester, **No Asbestos!**
- Reduces conduction of over five times less heat than concrete asbestos plate.
- Improves energy efficiency.
- Remains stable under compression.
- Highly resistant to water, oil and lubricants.
- Both materials can be cut, drilled, sawed or milled. Uses standard tooling.
- Type II, comes in two thicknesses.
- Type II, both sides have a sanded finish.
- Type II, takes rough handling and abuse without chipping or cracking.

### TYPE I

#### — SPECIFICATIONS —

- Basic Material: Inorganic Bonded Muscovite Mica
- Thickness: 1/8" ± .005
- Density: .094 lbs./cu. in.
- Thermal conductivity: .797 (BTU/in/hr/sq.ft./ Deg. F)
- Thermal capability: 1,000° F
- Tensile Strength: 15,000 PSI @ 1,000° F
- Smoke & Odor: Some at 700 to 1,000° F  
None after 5 minutes
- Mechanical properties: can be drilled, machined, cut, sawed or milled without delamination or cracking.
- Electrical specifications available on request.

### TYPE II

#### — SPECIFICATIONS —

- Basic Material: fiberglass reinforced, mineral filled sheet bonded together with heat resistant thermosetting resins.
- Thickness: 1/4" and 1/2" ± .002
- Density: 123 lbs./Ft<sup>3</sup>.
- Thermal conductivity: 1.7 (BTU/in/hr/sq.ft./ Deg. F)
- Thermal capability: 550° F
- Compressive strength
 

@ 73° F		D-695	42,900 PSI
@ 300° F	TEST	D-695	45,900 PSI
@ 400° F	METHOD	D-695	48,200 PSI
@ 450° F	ASTM	D-695	48,000 PSI
- Flame Resistance: UL Subject 94, V-O.

### TYPE I

THICKNESS	SHEET SIZE	PART NO.
1/8"	1/8" x 12" x 36"	M1-1236
	1/8" x 24" x 36"	M1-2436
	1/8" x 36" x 36"	M1-3636

### TYPE II

THICKNESS	SHEET SIZE	PART NO.
1/4"	1/4" x 12" x 36"	M214-1236
	1/4" x 18" x 36"	M214-1836
	1/4" x 24" x 36"	M214-2436
	1/4" x 36" x 36"	M214-3636
1/2"	1/2" x 12" x 36"	M212-1236
	1/2" x 18" x 36"	M212-1836
	1/2" x 24" x 36"	M212-2436
	1/2" x 36" x 36"	M212-3636

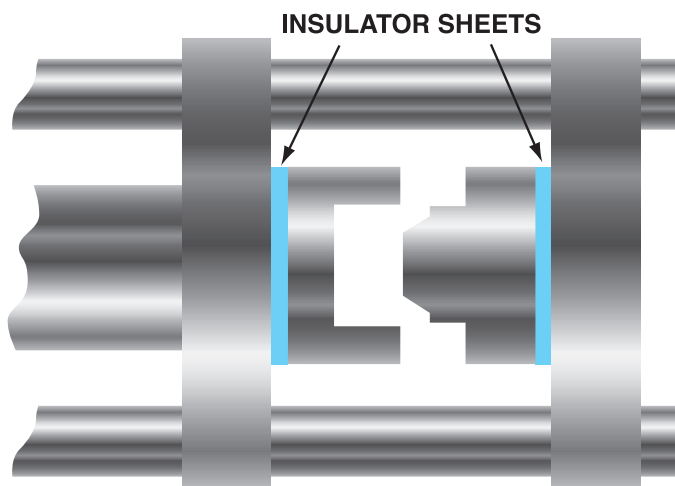
# High Temperature Insulator Sheets



## **GLASTHERM** Grade HT

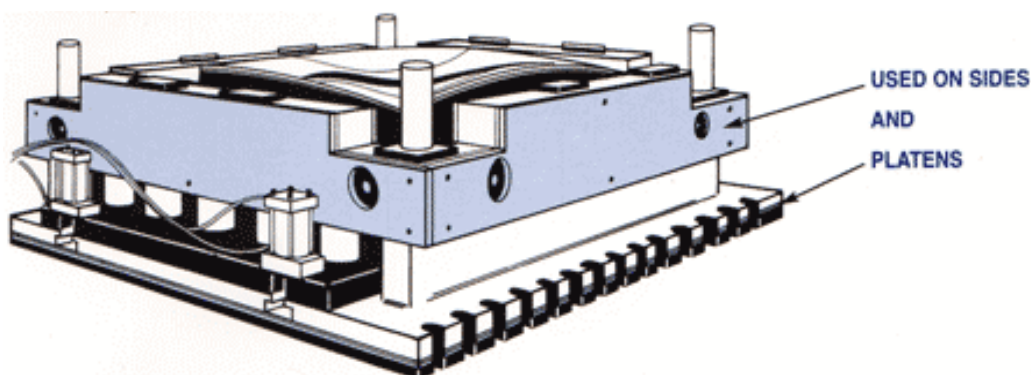
Glastherm Grade HT is a high compressive strength, heat-resistant composite material. Finished to a close thickness tolerance, it is ideal for installation between the mold and the press or within the mold itself. It is completely asbestos-free and rugged to withstand rough handling during installation. It is easily cut and machined with standard metal working equipment. Diamond cutting tools are recommended for long life. Compression molded for high impact strength, supplied micro-finished top and bottom, parallel within  $\pm .002$ .

GENERAL INFORMATION		
Compressive Strength	(ASTM D-229)	49,400 psi at 75°F
		27,200 psi at 300°F
		18,000 psi at 400°F
		17,100 psi at 500°F
		15,000 psi at 550°F
Modules of Elasticity in Compression	(ASTM D-229)	1.8 x 10 <sup>6</sup> psi at 75°F
		2.9 x 10 <sup>6</sup> psi at 75°F
Water Absorption	(ASTM D-229)	0.2%
Thermal Conductivity (K Factor) (Btu/hr/ft <sup>2</sup> /in/°F)	(ASTM C-177)	1.9 at 75°F
		2.1 at 425°F
Flame Resistance	(UL Subject 94)	94V-0
Expansion Across Thickness		6.43 x 10 <sup>-5</sup> in/in/°F
Expansion Across Surface		6.43 x 10 <sup>-5</sup> in/in/°F
Maximum Recommended Service Temperature		550°F



THICKNESS	LENGTH	WIDTH	CATALOG NUMBER
1/4	36"	18"	GTIS1836-25
1/4	36"	24"	GTIS2436-25
1/4	36"	36"	GTIS3636-25
1/2	36"	18"	GTIS1836-50
1/2	36"	24"	GTIS2436-50
1/2	36"	36"	GTIS3636-50

- High hot compressive strength.
- Low thermal conductivity.
- Oil and moisture resistant.
- Reduces heat loss.
- Helps control temperature.
- Faster mold startup.
- Special machining to print available.
- Special sizes also available



EXAMPLE OF APPLICATION

IN CASE OF ATTACHING TO MOULD

IN CASE OF ATTACHING TO INJECTION MOLDING MACHINE

