

MOLD AND PLATEN THERMAL INSULATION (high temp)

Composition:

A fiberglass reinforced thermoset polyester composite material.

Sheet Sizes:

36" x 72" and 48" x 96" sheets at 1/4" to 2" thicknesses. Cut and fabricated to shape.

Color:

White

Advantages & Applications:

The high temperature and low temperature mold and platen thermal insulations possess high heat resistance, maintain high compressive strength, low thermal conductivity, low moisture absorption and durability. It resists oils and is maintenance free. The higher temperature insulation is rated at 550°F, and is particularly suited for the plastics and zinc die cast mold requirements.

Specifications:

Density	123 lbs/ft ³
Maximum operating temperature	550°F (288°C)
Water absorption	0.2 – 0.44%
Compressive strength	
ASTM D-695	44,000 – 49,000 psi
300°F	27,000 – 31,700 psi
400°F	18,000 – 30,600 psi
500°F	17,500 – 26,200 psi
Flexural strength ASTM D-790	18,000 – 23,000 psi
Impact strength ASTM D-256	8.0 – 10.0 Izod ft-lbs/in notch
Thermal conductivity ASTM D-177	1.75 – 1.8 BTU/hr/ft ² /in °F
Coefficient of therm expansion ASTM D-696	2.40 x 10 ⁻⁵ in/in/ °C

AMS supplies Glasstherm HT and Haysite 330 higher temperature mold and platen thermal insulation.