

Insulation Board Properties

	Test Method	Values
Moisture Resistance		
Water Vapor Transmission	ASTM E-96	2.0-5.0 perms
Water Absorption	ASTM C-272	Less than 4% by Volume
Strength Properties		
Compressive 10% Deflection	ASTM D-1621	10-14 psi
Flexural Strength	ASTM C-203	25-30 psi
Tensile Strength	ASTM D-1623	16-20 psi
Surface Burning Characteristics		
Flame Spread	ASTM E-84	<25
Fuel Contributed	ASTM E-84	Not Determinable
Smoke Development	ASTM E-84	<450
Thermal Properties (1" thick board)		
Thermal Resistance @ 75°	ASTM C-177-C-518	R=3.6ft ² -h/BTU
Thermal Resistance @ 40°	ASTM C-177-C-418	R=4.0ft ² -h/BTU
Thermal Resistance @ 40°	ASTM C-177-C-518	U=0.25
Coefficient of thermal expansion	ASTM D-696	.000035 in/in-F
Density	ASTM C-303	.9 LBS/ cu ft min.

- Only 100% virgin expandable polystyrene resin is to be used. The use of any regrind material is strictly forbidden.
- 80% or better, no visible voids.
- Molded blocks shall be air dried for a minimum of six weeks (less than .5% residual pentane) prior to cutting into finished boards: +/- 1/32 inches.
- Over entire board of a maximum size (2ft x 4ft ASTM C-550) length, width, thickness and square ness: +/- 1/16 inches. Flatness over entire board: +/- 1/32 inches.