

TYPE I

Data sheet



Description:

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Expanded polystyrene sheets produced in various sizes to suit multiple needs and/or uses.

Product data:

AVAILABLE SIZES:

According to your needs.

PHYSICAL PROPERTIES	IMPERIAL	METRIC	ASTM Test	EPS Type 1
Thermal resistance: R-value at 75°F (24°C) for 1 in (25 mm) thickness	$\frac{\text{h.ft}^2 \text{ hr}^\circ\text{F}}{\text{BTU}}$	$\frac{\text{m}^2 \text{ }^\circ\text{C}}{\text{W}}$	C-518 C-177	3.7 min. (0.70 min.)
Compressive strength (min.) at 10% distortion	psi	(kPa)	D-1621	10.2 (70)
Bending strength (min.)	psi	(kPa)	C-203	25 (170)
Dimensional stability: % of linear change (max.)	%	%	D-2126	1.5
Coefficient of thermal expansion (max.)	in/in/°F	(mm/mm/°C)	D-696	3.5×10^{-5} [$6 \times 10^{-5} \text{ }^\circ\text{C}^{-1}$]
Water vapor permeability (max.)	Perm-inch	(ng/Pa.s.m ²)	E-96	5.25 (300)
Water absorption (max.)	%	%	D-2842	6
Effective temperature range				
Continuous	°F	(°C)	-	167 (75)
Intermittent	°F	(°C)	-	180 (82.2)
Flame spread rating	-	-	(CAN/ULC S102.2 M)	<115
Smoke developed	-	-	(CAN/ULC S102.2 M)	<430
Capillarity	-	-	-	Nil

PERMANENT R-VALUE GUARANTEE

The thermal resistance of this type of insulation is permanent due to its cellular structure which contains only stabilized trapped air. EPS performance does not diminish over time.

ECOLOGICAL

Contains no CFCs or HCFCs.

NOTES: EPS beads should be considered flammable when subjected to a source of intense heat or a constant strong flame. They are vulnerable to petroleum-based solvents and prolonged exposure to ultraviolet radiation. EPS must therefore be covered according to the National Building Code.



EVALUATION

- Certified INTERTEK ETL SEMKO
- Conforms to CAN/ULC-S701-01 standards
- CCMC #12984-1