

CAN/ULC-S701.1
Standard for Thermal Insulation, Polystyrene Boards

Property	ASTM Test	Units	Type 1	Type 2	Type 3
Thermal Resistance (R) Minimum @ 24°C (75°F)	C518	m ² •°C/W (25mm)	0.65	0.70	0.74
		ft ² •hr•°F/(BTU•in)	3.75	4.04	4.27
Water Vapor Permeance* Maximum	E96	ng/(Pa•s•m ²)	300	200	130
		perms	5.2	3.2	2.3
Dimensional Stability Maximum	D2126	% linear change	1.5	1.5	1.5
Flexural Strength Minimum	C203	kPa	170	240	300
		psi	25	35	44
Water Absorption (Immersion) Maximum	D2842	% by volume	6.0	4.0	2.0
Compressive Strength Minimum @ 10% Deformation or Yield	D1621	kPa	70	110	140
		psi	10	16	20
Limiting Oxygen Index Minimum	D2863	%	24	24	24

For more information on CAN/ULC-S701.1, visit https://www.shopulstandards.com/ProductDetail.aspx?productId=ULC701.1_6_S_20220225.

*Values quoted are maximum values for 25mm thick samples with natural skins intact. Lower values will result for thicker materials.