

CAN/ULC-S701

Standard for Thermal Insulation, Polystyrene, Boards & Pipe Covering

Property*	ASTM Test	Units	Type 1	Type 2	Type 3
Thermal Resistance Values (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 7 Days @ 70± 2°C	% linear change	1.5	1.5	1.5
Flexural Strength Minimum	C203 Procedure B	kPa	170	240	300
		psi	25	35	44
Water Absorption Maximum	D2842	% by volume	6.0	4.0	2.0
Compressive Strength Minimum @ 10% Deformation	D1621 Procedure A	kPa	70	110	140
		psi	10	16	20
Limiting Oxygen Index Minimum	D2863	%	24	24	24

For more information on CAN/ULC-S701, visit <http://www.scc.ca/en/standardsdb/standards/25959>.

*Values quoted are maximum values for 25mm (1 inch) thick samples with natural skins intact. Lower values will result for thicker materials.

**The test methods used to determine the above material properties provide a means of comparing different cellular plastic thermal insulations. They are intended for use in specifications, product evaluations and quality control. They are not intended to predict end-use product performance.



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