

CAN/ULC-S701

Property*	Units	Requirements			Test Method
		Type 1	Type 2	Type 3	
Thermal Resistance (R-value)	m ² •°C/ (W•25 mm)	0.65	0.70	0.74	ASTM C518
Minimum @ at 24C (75°F)	ft ² •hr•°F/(BTU•in)	3.75	4.04	4.27	
Water Vapour Permeance**	ng/(Pa•s•m ²) perms	300	200	130	ASTM E96
Maximum		5.2	3.2	2.3	
Dimensional Stability	% linear change	1.5	1.5	1.5	ASTM D2126 7 days @ 70± 2°C
Maximum					
Flexural Strength	kPa psi	170 25	240 35	300 44	ASTM C203 Procedure B
Minimum					
Water Absorption	% by volume	6.0	4.0	2.0	ASTM D2842
Maximum					
Compressive Strength	kPa psi	70 10	110 16	140 20	ASTM D1621 Procedure A
Minimum @ 10% Deformation					
Limiting Oxygen Index	%	24	24	24	ASTM D2863
Minimum					

**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.

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