Product Information Bulletin

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PlastiSpan Insulation Material Property Data Sheet CAN/ULC-S701-05, Type 1

CAN/ULC-S701-05, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering** is the National Standard of Canada for moulded expanded polystyrene (EPS) insulation. The table below provides material property requirements from CAN/ULC-S701 for the PlastiSpan insulation type indicated.

Material Property	Test Method[1]	Units	Type 1[2]
Thermal Resistance[3] *Minimum*	ASTM C 518	$\dfrac{m^2 \cdot {}^{o}C}{W}$	0.65
Water Vapour Permeance[4] *Maximum*	ASTM E 96	$\dfrac{ng}{Pa \cdot s \cdot m^2}$	300
Dimensional Stability *Maximum*	ASTM D 2126 7 Days @ 70 ± 2°C	% Linear Change	1.5
Flexural Strength *Minimum*	ASTM C 203 Procedure B	kPa	170
Water Absorption[5] *Maximum*	ASTM D 2842	% by volume	6.0
Compressive Resistance *Minimum @ 10% Deformation*	ASTM D 1621 Procedure A	kPa	70
Limiting Oxygen Index *Minimum*	ASTM D 2863	%	24

Notes to Table:

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

2 The properties of PlastiSpan insulation board manufactured to CAN/ULC-S701 are third party certified and labelled under a listing program administered by Intertek Testing Services.

3 Values quoted are minimum thermal resistance per 25-mm of thickness at mean temperature of 24 °C (75 °F). Multiply by 5.768 to obtain R-Value per inch of thickness – $(Ft^2 \cdot hr \cdot {}^{o}F)/BTU$.

4 Values quoted are maximum values for 25-mm thick samples with natural skins intact. Lower values will result for thicker materials. Where water vapour permeance is a design issue, consult Plasti-Fab Sales representative for additional information.

5 Water absorption % by volume in CAN/ULC-S701 is determined using ASTM D2842 which involves complete submersion under a head of water for 96 hours.

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