

# GreenGuard® Extruded Polystyrene Insulation Board for Canada DATA SHEET



## Typical Physical Properties

<b>Property</b>	<b>Test Method</b>	<b>1 Inch (25 mm)</b>	<b>1 1/2 Inch (38 mm)</b>	<b>2 Inch (50 mm)</b>	<b>3 Inch (76 mm)</b>
<b>Thermal Resistance</b>					
<b>R-Value</b> °F•ft <sup>2</sup> •h/Btu (m <sup>2</sup> •°C/W) @ 75°F (23°C)	ASTM C 518	5.0 (0.88)	7.5 (1.32)	10.0 (1.76)	15.0 (2.64)
<b>Long-Term Thermal Resistance</b>					
°F•ft <sup>2</sup> •h/Btu (m <sup>2</sup> •°C/W @ 25 mm) @ 75°F (23°C)	CAN/ULC S770	5.0 (0.88)	7.5 (1.32)	10.0 (1.76)	15.0 (2.64)
<b>Water Vapor Permeance</b>					
75°F (23°C) & 50% R.H. Perms (ng/Pa•s•m <sup>2</sup> )	ASTM E 96 Dessicant Method	< 1 (< 60)	< 1 (< 60)	< 1 (< 60)	< 1 (< 60)
<b>Dimensional Stability</b>					
Maximum % Linear Change	ASTM D 2126	1.5	1.5	1.5	1.5
<b>Flexural Strength</b>					
psi (kPa)	ASTM C203 Method 1	50 (350)	50 (350)	50 (350)	50 (350)
<b>Water Absorption</b>					
% by Volume	ASTM D 2842	0.7	0.7	0.7	0.7
<b>Compressive Strength</b>					
psi kPa	ASTM D 1621 Procedure A	30 210	30 210	30 210	30 210
<b>Limiting Oxygen Index</b>					
Minimum %	ASTM D 2863	24	24	24	24
<b>Product Type</b>					
	CAN/ULC- S701-97	4	4	4	4

**Compliance:** See CCMC 12722-L (Canadian Construction Materials Centre).

GreenGuard Insulation Board meets the flame spread and smoke developed requirements of the 2005 National Building Code of Canada (CAN/UL-S102.2). See ULC Directory, Category Code BTLIC.

**Limitations:** These products should not be used as an exposed interior surface in buildings where people are expected to be present. An approved fire protection barrier, such as ½ inch (12.5 mm) gypsum wallboard or equivalent material must be used to separate foam plastic insulation from the interior of such buildings. Applicable fire and building codes must be followed.

Since foam sheathings are non-structural, they must be installed over adequately braced framing in accordance with local building codes.

**WARNING:** Foam plastic insulation will ignite if exposed to fire of sufficient heat and intensity. Protect foam insulation from exposure to open flame or other ignition sources during shipment, storage, and installation.

**For the most current product information, go to [www.green-guard.com](http://www.green-guard.com).**



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