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TECHNICAL DATA SHEET

BOREAL ELITE is a medium density spray-applied rigid polyurethane foam insulation specially formulated without any ozone depletion substances (Zero ODS). BOREAL ELITE has a global warming potential (GWP) of 1, which is 99.9% lower than current HFCs used in this industry. This system is formulated with plant-based materials, recycled products and lavender extracts. The lavender extracts generate a pleasant and fresh odour during the application. BOREAL ELITE is lime green in colour.



BOREAL ELITE has been tested by an independent laboratory and accredited by CCMC (14140-L). The finished product surpasses the CAN/ULC S705.1-15 material standard requirements. BOREAL ELITE must be applied by licensed installers in accordance with the CAN/ULC S705.2 application standard.

TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
Core Density	ASTM D1622	32.0 kg/m³ (2.00 lb/ft³)
Compressive Strength	ASTM D1621	228 kPa (33.1 psi)
Tensile Strength	ASTM D1623	205 kPa (29.7 psi)
Water Vapour Permeance	ASTM E96 (core, 50mm)	34 ng/(Pa*s*m²)
Surface burning (flame spread index)	CAN/ULC S102 (S127)	30
Smoke Develop Index	CAN/ULC S102-10	285
Long Term Thermal Resistance (50mm)	CAN/ULC \$770-09	1.96 (k*m²)/W
Air Permeance @ 75 Pa	ASTM E2178	0.0008 L/(s*m²)
Volatile Organic Emissions – Recommended time to occupancy	CAN/ULC S774	24 hours
Open Cell Content	ASTM D6226	2.8%
Water Absorption	ASTM D2842 (by volume)	0.6%
Dimensional Stability ASTM D2126 (28 days)	-20ºC, Ambient R.H.)	-1%
	80°C, ambient R.H. 70°C, 97%RH (+-3% R.H.)	+2% +13%

ADDITIONAL TEST RESULTS

PHYSICAL PROPERTY	STANDARD	RESULT
Long Term Thermal Resistance (50mm)	CAN/ULC \$770-03	RSI 2.14 (R-6.2/inch)
Recycled Content	GreenGuard Gold	17.4%
Renewable Materials Content	GreenGuard Gold	5.8%

LONG-TERM THERMAL RESISTANCE (CAN/ULC S770-09)

Thickness	R-VALUE	RSI
mm (inches)	(ft²*hr*°F)/BTU	(m²*K)/W
50.8 (2.00)	11.4	2.00
63.5 (2.50)	14.3	2.51
76.2 (3.00)	17.1	3.01
88.9 (3.50)	20.6	3.63
102.0 (4.00)	24.1	4.24
127.0 (5.00)	30.2	5.31
152.0 (6.00)	36.5	6.42
177.8 (7.00)	42.7	7.52
203.2 (8.00)	48.9	8.62

INSTALLATION GUIDELINES

BOREAL NATURE	Ambient Temperatures	Spray Temperatures	Spray Pressure
SUMMER	10 to 35°C (50 to 95°F)	35 to 46°C (95 to 115°F)	5516 kPa (800 psi)
WINTER	-10 to 15°C (14 to 59°F)	38 to 50°C (100 to 125°F)	5516 kPa (800 psi)

Processing conditions can vary depending on temperature, humidity, substrate, equipment, and other factors.

It is the applicator's responsibility to process and apply BOREAL ELITE within specification.

COMPONENT PRODUCT SPECIFICATIONS

PROPERTY	POLYMERIC ISOCYANATE A-2732	BOREAL NATURE RESIN
COLOUR	Brown liquid	Dark liquid
Viscosity at 25°C	150-250 cps	200-400 cps
Specific gravity	1.22 – 1.24	1.17 – 1.21
Shelf life	12 months	6 months

REACTIVITY PROFILE

CREAM TIME	GEL TIME	RISE TIME
0 to 1 second	2 to 3 seconds	4 to 5 seconds

ADDITIONAL INFORMATION

- ✓ CAN/ULC S705.2 requires a maximum per pass thickness of 51mm (2 inches). Spraying thicker can result in changes to physical properties.
- ✓ Internal temperature of installed pass must be 29°C before installing subsequent passes. Maximum thickness during 24 hour period is 203mm (8 inches).
- ✓ Like all spray foam products, "Boreal Elite" is combustible. An approved thermal barrier must be installed in accordance with applicable building codes.
- ✓ The service temperature of "Boreal Elite" is between -60°C and 80°C.
- ✓ Recommended storage temperature of materials is from 10 to 25°C (50 to 77°F).

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