

BOREAL NATURE ELITE

Boreal Nature Elite is a closed-cell medium density spray-applied polyurethane foam insulation formulated with environmentally responsible HFO blowing agents. The product is manufactured without ozone depletion substances (Zero ODS).

Boreal Nature Elite has been tested by an independent laboratory and accredited by CCMC. The finished product surpasses the CAN/ULC S705.1-15 material standard requirements.



LED BY COMMITMENT



PREMIUM PRODUCT

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a durable product with industry leading thermal resistance



SUSTAINABILITY

BOREAL ELITE is formulated with plant-based materials, recycled products, captured rainwater and lavender extracts. Environmentally responsible behaviour is a Genyk standard.



LOCALLY REPRESENTED

Genyk is a Canadian manufacturer. Each region has local representation. Boreal Nature Elite is installed by a nation-wide network of certified applicators.

PHYSICAL PROPERTIES – CCMC # 14140-L				
PHYSICAL PROPERTIES	REQUIREMENTS		STANDARD	RESULT
	Min.	Max.		
Core Density	28.0 kg/m ³	---	ASTM D1622	32.0 kg/m ³ (2.0 lb/ft ³)
Compressive Strength	170 kPa	---	ASTM D1621	228 kPa (33.1 psi)
Tensile Strength	200 kPa	---	ASTM D1623	205 kPa (29.7 psi)
Water Vapour Permeance (50mm thickness)		60ng(Pa.s.m ²)	ASTM E96 (Procedure A)	34 ng(Pa.s.m ²)
Surface Burning (flame spread index)	---	500	CAN/ULC S127-14	285
Fungi Resistance	No growth	---	ASTM C1338	No growth
Long Term Thermal Resistance				
Thickness 25 mm	Declared	---		0.93 RSI
Thickness 50 mm	1.80 m ² *K/W	---	CAN/ULC- S770-09	1.96 RSI
Thickness 75 mm	Declared	---		2.93 RSI
Thickness 100 mm	Declared	---		4.12 RSI
Air Permeance	---	0.02	ASTM E2178	0.001 L/(s.m ²)
Recommended Time to Occupancy	1 day	30 days	CAN/ULC S774	25 hours
Open Cell Content	---	10.0%	ASTM D6226 (Procedure 2)	2.8 %
Water Absorption (volume)	---	4.0%	ASTM D2842 (Procedure A)	1.6 %
			ASTM D2126 (28 days)	
Dimensional Stability	-2	+5	-20°C	-1 %
	-2	+8	80°C	+2 %
	-2	+14	70°C, 97% (RH±3%)	+13 %

PHYSICAL PROPERTIES – ADDITIONAL TESTING

Air Barrier System	CCMC Masterformat 07 27 09.01	CCMC Report in process
Radon mitigation system	CCMC Masterformat 07 26 23.0	CCMC Report in process
Long Term Thermal Resistance (50mm)	CAN/ULC- S770-03	2.14 RSI (R 6.2/in)
Surface Burning (flame spread index)	CAN/ULC S102-10	30
Recycled Content	N/A	17.4 %
Renewable Materials Content (Veg. oils)	N/A	5.8 %
15 minutes wall assembly high heat	NBC, Article 3.2.3.8 Protection of Exterior Building Face, Sentence 2 CAN/ULC S101 15-minute Stay In Place test (Steel face – Cement board and stucco)	Met the requirements. Independent laboratory report available upon request.

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

THICKNESS mm (in)	R-VALUE (ft ² .hr.°F)/Btu	RSI (m ² .K)/W
50.8 (2.00)	11.4	2.0
63.5 (2.50)	14.3	2.5
76.2 (3.00)	17.4	3.1
88.9 (3.50)	20.6	3.6
102.0 (4.00)	24.1	4.2
127.0 (5.00)	30.7	5.8
152.0 (6.00)	36.5	6.4
177.8 (7.00)	42.7	7.5
203.2 (8.00)	48.9	8.6

COMPONENT PRODUCT SPECIFICATIONS

PROPERTIES	POLYMERIC ISOCYANATE A-2732	BOREAL NATURE ^{Elite} RESIN
Colour	Brown Liquid	Green Liquid
Viscosity at 25°C	150 – 250 cps	280 - 420 cps
Specific Gravity at 25°C	1.22 – 1.25	1.17 – 1.23
Shelf Life	12 months	6 months
Storage Temperature	10-38°C / 50-100°F	10-25°C / 50-77°F
Ratio (volume)	100	100



During the application, it is important not to exceed 51 mm (2 in) per pass, in order not to alter the quality of the foam.



Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

ADDITIONAL INFORMATION

- Internal temperature of installed pass must be 29°C before installing subsequent passes. Maximum thickness during 24 hour period is 203mm (8 inches).
- This product is combustible and must be installed in accordance with applicable building codes.
- The service temperature is between -60°C and 80°C.
- Temperature, humidity, equipment, substrate can vary installation parameters.

INSTALLATION GUIDELINES

BOREAL NATURE ^{Elite}	Ambient Temperatures	Spray Temperatures	Minimum Spray Pressure
Summer	5°C to +35°C (41 to 95°F)	35 – 49°C (95 -120°F)	5516 kPa (800 psi)
Winter	-10°C to +15°C (14 to 59°F)	38 – 55°C (100-130°F)	5516 kPa (800 psi)

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BOREAL Nature Elite must be applied by licensed installers in accordance with the CAN/ULC S705.2 application standard.