

NOVA BLOCK™ 20

CRAWLSPACE VAPOR BARRIER

NovaBlock is a line of high-performance, woven-reinforced membranes made from virgin resin and designed to protect against moisture and soil gas intrusion. NovaBlock 20 is a high-strength, 20 mil thick membrane ideal for the most demanding vapor intrusion projects.



FEATURES & BENEFITS

- ASTM E84 Class A Fire Rated
- No VOC/Odors
- ASTM E1745 Class A: Highest performance for plastic water vapor barrier
- Woven reinforced
- Superior puncture and tear resistance
- Maximum strength for heavy foot traffic

20 MIL MEMBRANE FOR THE MOST DEMANDING VAPOR INTRUSION PROJECTS.

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PRODUCT ATTRIBUTES

CHARACTERISTICS	TEST METHOD	NovaBlock™ 20
Thickness mil (mm)	ASTM D1777	20 mil (0.51 mm), ±10%
Weight	N/A	10 oz/yd^2 (339 g/m^2) ± 5%
Roll Sizes	N/A	Standard sizes: 4 ft x 200 ft and 12 ft x 100 ft Custom sizes are available upon request
Folded	N/A	V or C folded options available
Weave	N/A	Woven clear HDPE scrim
Coating	N/A	LDPE, 2.5 mil average on each side (59 g/m^2/side)
Color	N/A	White, yellow or colored coatings available
Temperature Range	N/A	-76°F to 158°F (- 60°C to 70°C)
Strip Tensile (New material)	ASTM D5035	MD 190 lb/in (1663 N/5cm) TD 260 lb/in (2276 N/5cm)
Tongue Tear (Large scale)	ASTM D5884	MD 85 lb/in (378 N) TD 95 lb/in (422 N)
Grab Tensile	ASTM D7004	MD 300 lb/in (1334 N) TD 400 lb/in (1779 N)
Trapezoidal Tear	ASTM D4533	MD 80 lb/in (356 N) TD 150 lb/in (667 N)
Mullen Burst	ASTM D751	500 psi (3447 kPa)
Water Vapor Permeance **Water Vapor Transmission Rate**	ASTM E96	0.034 perms 0.014 grains/ft^{2}hr
Accelerated UV[1]	N/A	>80% strength retention after 2000 hrs
Weathering[1]	ASTM E154	exposure @ 0.77 W/m^2/nm, or 1200 hrs exposure @ 1.35 W/m^2/nm

1 Q.U.V. [A-340 Lamps]; 8 hrs UV @ 60°C; 4 hrs condensation @ 50°C

PRODUCT APPLICATIONS

- Crawlspaces encapsulations
- Radon mitigations
- Underslab
- Moisture control
- Vapor intrusion projects

INSTALLATION

- Crawlspace Installation

NovaBlock should be installed over the entire floor area and no more than 3" from the top of foundation wall. All seams should be overlapped a minimum of 12 inches and taped with NovaBlock Seam Tape. Terminate NovaBlock to foundation walls using NovaBlock Foundation Tape, approved mechanical fasteners and construction sealants.

- Under-Slab Installation

NovaBlock should be installed over the entire floor area of aggregate, sand or earth base. All seams should be overlapped a minimum of 6 inches and taped with NovaBlock Seam Tape. All penetrations should be sealed using NovaBlock, NovaBlock Seam Tape, NovaBlock Foundation Tape, or approved sealants.