SPECIFICATION INFORMATION

VIPER™ 16 mil

Vapor Retarders
Division: 07260
Division: 03300

Revision #9

1.0 Product Name

Viper™ VaporCheck 16
Under-Slab Vapor Retarder.

2.0 Manufacturer

InsulationSolutions®

Insulation Solutions Inc.
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East Peoria, IL 61611

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3.0 Product Description

3.1 Basic Use:

Viper™ VaporCheck 16 is a high performance under-slab vapor retarder designed to retard moisture migration through concrete slabs-on-grade. Viper™ VaporCheck 16 helps to protect flooring and other moisture sensitive furnishings in a building's interior from moisture migration.

Viper™ VaporCheck 16 can also reduce condensation, mold and degradation by controlling water vapor migration.

3.2 Composition & Materials:

Viper™ VaporCheck 16 is a 16 mil triple ply, extrusion coated, virgin polyethylene membrane. Viper™ VaporCheck 16 is manufactured using woven high-density fibers yielding the highest strength to weight ratio, tensile strength, tear resistance, bursting strength and puncture resistance of any product produced of its kind.

3.3 Size:

Viper™ VaporCheck 16 is available in 2400 sq. ft. rolls (12' X 200').

3.4 Weight:

Viper™ VaporCheck 16 weighs approximately 47 lbs. per 1000 sq. ft.

4.0 Technical Data

4.1 Applicable Standards

American Society for Testing & Materials (ASTM)

- *ASTM E 1745 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs*
- *ASTM E 154 Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover*
- *ASTM D 1709 Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method / ASTM D 5602 Standard Test Methods for Static Puncture Resistance of Roofing/Under Slab Membrane Specimens*
- *ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials*
- *ASTM D 882 / ASTM D 751 Standard Test Method for Coated Fabrics*
- *ASTM E 1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*

Note: To the best of our knowledge, these are typical property values and are intended as guides only, not as specification limits. Insulation Solutions Inc.® makes no warranties as to the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability for resulting loss or damage.

PROPERTIES	TEST METHOD	VIPER VAPORCHECK 16	
Test Results - Independent Test Facility		*English*	*Metric*
Thickness, Nominal		16 mil	0.40 mm
Weight Per MSF	ASTM D 1910	47 lbs	21.3 kg
Classification	ASTM E 1745	CLASS A, B, & C	
Tensile Strength (New Material)	ASTM E 154, Sec. 9	167 lbs. (MD) 158 lbs. (TD)	75.7 kg 71.7 kg
Tensile Strengh (After Soaking)	ASTM E 154, Sec. 9	165 lbs. (MD) 163 lbs. (TD)	74.8 kg 73.9 kg
Tear Strength	ASTM D 751 Tongue	62 lbs. (warp) 60 lbs. (weft)	28 kg 27.2 kg
Bursting Strength	ASTM D 751 Mullen	371 lbs.	168.3 kg
Puncture Resistance	ASTM D 1709	25,335 grams	
Puncture Resistance	ASTM D 5602	123 lbs.	55,792 g
Maximum Use Temperature Minimum Use Temperature		180° F -70° F	82° C -57° C
Permeance	ASTM E 154 Sec. 7 ASTM E 96 B	.0015 perms CLASS A	.00098 perms CLASS A