

SPECIFICATION INFORMATION



10 mil

Vapor Retarders

Division: 07260

Division: 03300

Revision #8

1.0 Product Name

Viper™ VaporCheck 10
Under-Slab Vapor Retarder.

2.0 Manufacturer



Insulation Solutions®

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3.0 Product Description

3.1 Basic Use:

Viper™ VaporCheck 10 is a high performance under-slab vapor retarder designed to retard moisture migration through concrete slabs-on-grade. Viper™ VaporCheck 10 helps to protect flooring and other moisture sensitive furnishings in a building's interior from moisture migration.

Viper™ VaporCheck 10 can also reduce condensation, mold and degradation by controlling water vapor migration.

3.2 Composition & Materials:

Viper™ VaporCheck 10 is a 10 mil triple ply, extrusion coated, virgin polyethylene membrane. Viper™ VaporCheck 10 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 10 is available in 2400 sq. ft. rolls (12' X 200').

3.4 Weight:

Viper™ VaporCheck 10 weighs approximately 36 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 10 | |
|---|--------------------|----------------------------------|--------------------|
| | | English | Metric |
| <i>Test Results - Independent Test Facility</i> | | | |
| Thickness, Nominal | | 10 mil | 0.25 mm |
| Weight Per MSF | | 36 lbs | 16.3 kg |
| Classification | ASTM E 1745 | CLASS A, B, C | |
| Tensile Strength (New Material) | ASTM E 154, Sec. 9 | 136 lbs. (MD) 134 lbs. (TD) | 61.7 kg 60.8 kg |
| Tensile Strength (After Soaking) | ASTM E 154, Sec. 9 | 140 lbs. (MD) 133 lbs. (TD) | 63.5 kg 60.3 kg |
| Tear Strength | ASTM D 751 Tongue | 54 lbs. (warp) 57 lbs. (weft) | 24.5 kg 25.8 kg |
| Bursting Strength | ASTM D 751 Mullen | 318 lbs. | 144 kg |
| Puncture Resistance | ASTM D 1709 | 15,839 grams | |
| Puncture Resistance | ASTM D 5602 | 76 lbs. | 34,473 g |
| Maximum Use Temperature | | 180° F | 82° C |
| Minimum Use Temperature | | -70° F | -57° C |
| Permeance | ASTM E 154 Sec. 7 | .0016 perms | .0010 perms |
| | ASTM E 96 B | CLASS A | CLASS A |

