

## GenFlex II FRM EPDM Membrane

### DESCRIPTION

GenFlex II FRM EPDM is a scrim reinforced membrane that meets or exceeds all of the requirements for ASTM D 4637-04, Type II vulcanized rubber membrane. Membrane is reinforced with a 9 x 9, 1,000 denier polyester scrim and is available in .045", .060" and .075" thicknesses.

### PHYSICAL PROPERTIES

| PROPERTY  | ASTM TEST METHOD         | MINIMUM                                      | TYPICAL VALUES                               |
|---|--------------------------|--|--|
| Thickness-min. inches (mm)<br>45 mil (1.14 mm)<br>60 mil (1.52 mm)<br>75 mil (1.90 mm)                                | D 751                    | 0.041 (1.04)<br>0.054 (1.37)<br>0.067 (1.71) | 0.045 (1.14)<br>0.060 (1.52)<br>0.075 (1.90) |
| Thickness over Scrim – min. inches (mm)   | D 4637                   | 0.015 (0.381)                                | 0.015 (0.381)                                |
| Breaking Strength – lbf (N)   | D 751                    | 90 (400)                                     | 240 (1068)                                   |
| Dynamic Puncture Resistance (10 J)  | D 5635                   | Pass   | Pass   |
| Static Puncture Resistance (55.1 lbf)   | D 5602                   | Pass   | Pass   |
| Elongation, ultimate, min, %  | D 412 (Die C)            | 250  | 475  |
| Elongation @ fabric break, ultimate, min, %<br>Machine direction<br>Cross direction                                   | D 751                    | 15<br>15                                     | 15<br>15                                     |
| Tear Strength, lbf (N)  | D 751 (Tongue Tear)      | 10 (45)                                      | 60 (267)                                     |
| Brittleness Temperature – max °F (°C)   | D 2137                   | -49 (-45)                                    | -65 (-54)                                    |
| Ozone Resistance – No Cracks  | D 1149                   | Pass   | Pass   |
| Heat Aging - 240°F (116 °C) 28 days<br>Breaking Strength – lbf (N)<br>Elongation – %<br>Linear Dimensional Change – % | D 751<br>D 412<br>D 1204 | 80 (356)<br>200<br>±1.0                      | 275 (1223)<br>300<br>-0.7                    |
| Water Absorption – max mass %<br>150°F (62.6°C) 7 days  | D 471                    | +8 (-2)                                      | +1.8   |
| Weathering Resistance   | D 518                    | Pass   | Pass   |

### INSTALLATION

EPDM may be installed as a mechanically attached, a fully adhered, or a ballasted system. Please consult current GenFlex EPDM specifications for specific application needs.

### PREPARATION OF SUBSTRATES

Substrates must be clean, dry, smooth, and free of sharp edges, tins, loose or foreign materials, oil, grease, or other materials which may damage the membrane.

All rough surfaces, which could damage the membrane, shall be repaired as specified to offer a smooth substrate.

All surface voids greater than 1/4" (6.35 mm) wide shall be properly filled with an acceptable material.

### PRODUCT DATA

| THICKNESS        | WIDTH     | LENGTH        | WEIGHT   |
|------------------|-----------|---------------|--|
| 45 mil (1.14 mm) | 10' (3 m) | 100' (30.5 m) | 0.31 lb/ft <sup>2</sup> (1.5 kg/m <sup>2</sup> ) |
| 60 mil (1.52 mm) | 10' (3 m) | 100' (30.5 m) | 0.43 lb/ft <sup>2</sup> (2.1 kg/m <sup>2</sup> ) |
| 75 mil (1.90 mm) | 10' (3 m) | 100' (30.5 m) | 0.55 lb/ft <sup>2</sup> (2.7 kg/m <sup>2</sup> ) |

### LEED INFORMATION

|                                       |              |
|---------------------------------------|--------------|
| Reflectivity, % (ASTM C 1549)         | 6            |
| Emissivity (ASTM C 1371)              | 0.87 (Black) |
| Solar Reflectance Index (ASTM D 1980) | 0            |
| Recycled Content                      |              |
| Post Consumer                         | 0%           |
| Post Industrial                       | 0%           |
| Manufacturing Location                | Prescott, AR |

### STORAGE

Store in original, unopened packaging and away from sources of punctures and physical damage.

Assure that structural decking will support the loads incurred by the material stored on roof top. The deck load limitations should be specified by the project designer.

### SHELF LIFE

Not applicable

### PRECAUTIONARY DATA

To avoid sources of punctures and physical damage, take care when moving, transporting, or handling.

Waste products such as petroleum products, greases, animal fats, and oils (mineral and vegetable) should be isolated from the membrane.

Refer to Material Safety Data Sheet for additional information.

