

GenFlex AFR EPDM Membrane

DESCRIPTION

GenFlex AFR EPDM is a Non-Reinforced Fire Rated membrane that meets or exceeds all of the requirements for ASTM D 4637-04, Type I vulcanized rubber membrane. It's available in .045", .060" and .090" thicknesses.

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	MINIMUM	TYPICAL VALUES			
Thickness - min. Inches (mm)	D 412	0.041 (1.04)	0.045 (1.14)			
45 mil		0.054 (1.37)	0.060 (1.52)			
60 mil		0.081 (2.05)	0.090 (2.29)			
90 mil						
Tensile Strength – min. psi (MPa)	D 412	1305 (9.0)	1435 (9.9)			
Dynamic Puncture Resistance - J	D 5635	5	5			
Static Puncture Resistance, kg (lbf)	D 5602	20 (44.1)	20 (44.1)			
Elongation, min %	D 412	300	450			
Tensile Set, max,%	D 412 Method A (Die C)	10	5			
Tear Resistance – min. lbf/in (kN/m)	D 624	150 (26.27)	200 (35)			
Brittleness Temperature – max °F (°C)	D 2137	-49 (-45)	-63 (-53)			
Ozone Resistance – No Cracks	D 1149	Pass	Pass			
Heat Aging - 240°F (116°C) 28 days	D 412	1205 (8.3)	1415 (9.7)			
Tensile Strength – min. psi (MPa)						
Elongation – Ultimate min. %				D 412	200	240
Tear Resistance – min. lbf/in (kN/m)				D 624	125 (21.9)	181 (31.5)
Linear Dimensional Change – max %	D 1204	±1.0	-0.7			
Water Absorption – max mass % 150°F (62.6°C) 7 days	D 471	+8 (-2)	+1.8			
Factory Seam Strength – min. lbf/in (kN/m)	D 816	50/sheet failure	Sheet failure			
Weathering Resistance:						
Visual inspection	D 518	Pass	Pass			
PRFSE, min %	D 518	30	52			
Elongation, min %	D 412 (Die C)	200	240			

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) 16.66' (3.05 m) 20' (6.2 m)	50' (15.2 m) 100' (30.5 m)	0.31 lb/ft ² (1.5 kg/m ²)
60 mil (1.52 mm)	10' (3 m) 16.66' (3.05 m) 20' (6.2 m)	50' (15.2 m) 100' (30.5 m)	0.43 lb/ft ² (2.0 kg/m ²)
90 mil (92.2 mm)	10' (3 m)	50' (15.2 m) 100' (30.5 m)	0.63 lb/ft ² (2.8 kg/m ²)

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 Post Industrial	0% 0%
Manufacturing Locations	Prescott, AR Kingstree, SC

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.

