



36 mil FiberTite-FB

Product Data

Seaman Corporation's 36 mil FiberTite-FB "fleece back" membrane features an 18 x 19 / 840 x 1,000 denier weft reinforced polyester knit fabric, coated with a proprietary compound, utilizing DuPont's™ Elvaloy® Ketone Ethylene Ester (KEE) as the principle polymer in the hybrid vinyl alloy coating.

DESCRIPTION

36 mil FiberTite-FB "fleece back" is a 30-oz sq. yd/nominal 36-mil (0.9 mm) thick membrane. In addition to exceeding the ASTM D 6754-15 Standard Specification for Ketone Ethylene Based Sheet Roofing's minimum standards, 36 mil FiberTite-FB meets or exceeds the physical properties and performance characteristics of most competitive 50-mil membranes.

The 36 mil FiberTite-FB membrane incorporates a 4-oz per sq. yd non-woven polyester felt, heat bonded to the back side of the membrane with a 3-in selvedge edge for field welding. 36 mil FiberTite-FB is manufactured in conventional 100-in by 80-ft roll goods.

Seaman Corporation is vertically integrated, which allows complete control over the manufacturing process from the selection of the yarns, to the engineering, knitting and weaving of the base fabrics to the final coating process. Today, FiberTite Roofing Membranes are the result of Seaman Corporation's 60 years of applied fabric engineering and coating technology.

All FiberTite Roofing Membranes are constructed using high tenacity/heavy weight yarns to create a base fabric reinforcement to impart superior puncture, tensile and tear resistance properties. The base polyester fabrics are primed with a unique and proprietary adhesive coat that lays the foundation to physically bond the KEE coatings to the "fiber" to maximize seam strength and overall membrane performance.

36 mil FiberTite-FB is coated face and back with Seaman Corporation's original "KEE" formulation to provide superior hot air welding characteristics, extreme UV resistance, broad chemical resistance and long-term flexibility and reparability for the installed roofing membrane system. Additionally, 36 mil FiberTite-FB exhibits superior tear, puncture, fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

PHYSICAL PROPERTIES

ASTM D6754-15	Minimum Requirements	36 mil-FB Typical
Thickness, mm (in.) ASTM D 751	0.81 (0.032)	.91 (0.036 nom.)
Thickness over Fiber, mm (in) Optical method (inches)	0.18 (0.007)	.23 (0.009)
Breaking Strength, N (lbf) ASTM D 751 proc. B - strip	1499 (338)	1557 (350)
Elongation at Break, % ASTM D 751 - strip	18	18
Tear Strength, N (lbf) ASTM D 751 Proc. B. Tongue Tear	338 (76)	445 (100)
Linear Dimensional Change ASTM D 1204 max (%)	1.3	0.63
Fabric Adhesion, N/m (lbf/in) ASTM D 751	3330 (19)	no peel
Retention of Properties after Heat Aging ASTM D 3045 - 176°f/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	90 90	90 90
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend ASTM D 2136 (°f)	-30	-30
Change in Weight after Exposure in Water D 471 158°f, 166 h, one side only, max. (%)	0.0, +6.0	0.0, +3.7
Factory Seam Strength, N (lbf) ASTM D 751 Grab Method	1955 (440)	> Fabric Break
Hydrostatic Resistance, Mpa (psi) ASTM D751	4.1 (590)	4.8 (700)
Static Puncture Resistance ASTM D 5602 (99 lbf)	pass	pass
Dynamic Puncture Resistance (J) ASTM D 5635	10	20



For more information on FiberTite Systems and accessories please call:
Seaman Corporation (800) 927-8578
International (330) 262-1111
FiberTite.com

FiberTite® is a product and registered trademark of Seaman Corporation.



Subject to the conditions of Approval for a roof covering when installed as described in the current edition of the Approval Guide.



As to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 34KL, 48PO, 97PP.



These specifications are current as of the date of printing. Revisions or additions may be issued periodically. For a listing, presentation, and download of the most recent data, visit:

www.fibertite.com/document-library/product-data-sheets

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APPLICATION

36 mil FiberTite-FB Roofing Systems are installed by adhering the “fleece back” membrane in FTR-290 low VOC solvent borne adhesive, FTR-390 water borne asphalt emulsion, FTR-490 water borne elastomeric adhesive, FTR CR-20, or hot asphalt to a variety of pre-approved substrates.

For specific installation recommendations and requirements, please consult the most current versions of Seaman Corporation’s Guide Specifications for the Installation of FiberTite Roofing Systems.

PHYSICAL PROPERTIES (cont.)

ASTM D6754-15	Minimum Requirements	36 mil-FB Typical
Accelerated Weathering Practice G 155 / xenon	5000hr	>10000hr
cracking (7x magnification)	none	none
crazing (7x magnification)	none	none
Accelerated Weathering Practice G 154 / UVA	5000hr	>10000hr
cracking (7x magnification)	none	none
crazing (7x magnification)	none	none
Fungi Resistance Practice G 21, 28 days	no growth	no growth
Sustained Growth Discoloration	none	none
Abrasion Test, cycles D 3389 H-18 wheel / 1,000 g load	1,500	1,500

Additional Physical Properties

Tensile Strength (psi) ASTM D882	8500
Breaking Strength (lbs) ASTM D751, Grab Method	450
Puncture Resistance (lbs) ASTM D751, Bursting Strength	350
Water Vapor Transmission ASTM E96 proc. A (gm/m2/24hrs)	1.3
Shore A Hardness ASTM D2240	87
Flame Resistance MIL-C-20696C / Type II Class 2	pass
Oil Resistance, MIL-C 20696C No swelling, cracking or leaking	none
Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking	none
High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs)	pass

Energy Attributes	DC196 Off White	DC6 White	DC691 CR Gray	DC667 CR Tan
Initial Solar Reflectance ASTM C1549	0.83	0.87	0.69	0.72
Solar Reflectance (3 yr aged) ASTM C1549	0.66	0.71	.61	.63
Initial Thermal Emittance ASTM C1371	0.85	0.85	0.89	0.88
Thermal Emittance (3 yr aged) ASTM C1371	0.74	0.84	.89	.89
Solar Reflective Index (SRI) ASTM E1980	104	110	84	88
Solar Reflective Index (SRI) (3 yr aged) ASTM E1980	76	86	73	76
Energy Star	YES	YES	YES	YES
LEED v4 – Heat Island Reduction SS Credit	1 Credit	1 Credit	1 Credit	1 Credit

