



50 mil FiberTite-XT-FB

Product Data

Seaman Corporation's 50 mil FiberTite-XT-FB "fleece back" membrane features an 18 x 18 / 1,100 x 1,300 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

50 mil FiberTite-XT-FB "fleece back" is a 42-oz sq. yd/nominal 50-mil (1.27 mm) thick membrane and is an Xtra-Tough version of the FiberTite family of membranes. 50 mil FiberTite-XT-FB not only goes well beyond the requirements enumerated in ASTM D6754-15 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing, but surpasses the physical properties and performance characteristics of 90-mil competitive products.

The 50 mil FiberTite-XT-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. 50 mil FiberTite-XT-FB fleece back is manufactured in conventional 72-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.

50 mil FiberTite-XT-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, 50 mil FiberTite-XT-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	50 mil FB Typical
Thickness, mm (in.) <i>ASTM D 751</i>	0.81 (0.032)	1.27 (0.050 nom.)
Thickness over Fiber, mm (in) <i>Optical method (inches)</i>	0.18 (0.007)	.38 (0.015)
Breaking Strength, N (lbf) <i>ASTM D 751 proc. B - strip</i>	1499 (338)	1779 (400)
Elongation at Break, % <i>ASTM D 751 - strip</i>	18	18
Tear Strength, N (lbf) <i>ASTM D 751 Proc. B. Tongue Tear</i>	338 (76)	556 (125)
Linear Dimensional Change <i>ASTM D 1204 max (%)</i>	1.3	0.78
Fabric Adhesion, N/m (lbf/in) <i>ASTM D 751</i>	3330 (19)	no peel
Retention of Properties after Heat Aging <i>ASTM D 3045 - 176°/56 days</i>		
Breaking Strength, strip, % original	90	90
Elongation at Break, strip, % original	90	90
Low Temperature Bend after Heat Aging	-30	-40
Low Temperature Bend <i>ASTM D 2136 (°f)</i>	-30	-40
Change in Weight after Exposure in Water <i>D 471 158°f, 166 h, one side only, max. (%)</i>	0.0, +6.0	0.0, +3.7
Factory Seam Strength, N (lbf) <i>ASTM D 751 Grab Method</i>	1955 (440)	> Fabric Break
Hydrostatic Resistance, Mpa (psi) <i>ASTM D751</i>	4.1 (590)	5.9 (850)
Static Puncture Resistance <i>ASTM D 5602 (99 lbf)</i>	pass	pass
Dynamic Puncture Resistance (J) <i>ASTM D 5635</i>	10	30



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

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FiberTite® is a 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, 48P0, 97P9.



CHEMICAL FABRICS & FILM ASSOCIATION, INC.



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

50 mil FiberTite-XT-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	50 mil-FB Typical		
Accelerated Weathering <i>Practice G 155 / xenon</i>	5000hr	>10000hr		
cracking (7x magnification)	none	none		
crazing (7x magnification)	none	none		
Accelerated Weathering <i>Practice G 154 / UVA</i>	5000hr	>10000hr		
cracking (7x magnification)	none	none		
crazing (7x magnification)	none	none		
Fungi Resistance Sustained Growth <i>Practice G 21, 28 days</i> Discoloration	no growth none	no growth none		
Abrasion Test, cycles <i>D 3389 H-18 wheel / 1,000 g load</i>	1,500	2,000+		
Additional Physical Properties				
Tensile Strength (psi) <i>ASTM D882</i>	> 9500			
Breaking Strength (lbs) <i>ASTM D751, Grab Method</i>	600			
Puncture Resistance (lbs) <i>ASTM D751, Bursting Strength</i>	700			
Water Vapor Transmission <i>ASTM E96 proc. A (gm/m2/24hrs)</i>	1.3			
Shore A Hardness <i>ASTM D2240</i>	87			
Flame Resistance <i>MIL-C-20696C / Type II Class 2</i>	pass			
Oil Resistance, MIL-C-20696C <i>No swelling, cracking or leaking</i>	none			
Hydrocarbon Resistance, MIL-C-20696C <i>No swelling, cracking or leaking</i>	none			
High Temperature Dead Load <i>ASTM D751 (50 lbs, 160°F, 4 hrs)</i>	pass			
Energy Attributes	DC196 Off White	DC6 White	DC691 CR Gray	DC667 CR Tan
Initial Solar Reflectance <i>ASTM C1549</i>	0.83	0.87	0.69	0.72
Solar Reflectance (3 yr aged) <i>ASTM C1549</i>	0.66	0.71	.61	.63
Initial Thermal Emittance <i>ASTM C1371</i>	0.85	0.85	0.89	0.88
Thermal Emittance (3 yr aged) <i>ASTM C1371</i>	0.74	0.84	.89	.89
Solar Reflective Index (SRI) <i>ASTM E1980</i>	104	110	84	88
Solar Reflective Index (SRI) (3 yr aged) <i>ASTM E1980</i>	76	86	73	76
Energy Star	YES	YES	YES	YES
LEED v4 - Heat Island Reduction <i>SS Credit</i>	1 Credit	1 Credit	1 Credit	1 Credit



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