### **MEMBRANE**



## 45 mil FiberTite-SM-FB

**Product Data** 

Seaman Corporation's 45 mil FiberTite-SM-FB "fleece back" 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

45 mil FiberTite-SM-FB "fleece back" is a 40-oz sq. yd/ nominal 45-mil (1.1 mm) thick membrane. 45 mil FiberTite-SM-FB not only meets or exceeds the minimum physical property requirements enumerated in ASTM D6754-15 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing, but exceeds the physical properties and performance characteristics of 60-mil competitive products.

The 45 mil FiberTite–SM–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. 45 mil FiberTite–SM–FB fleece back 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.

45 mil FiberTite–SM–FB is coated on the face 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. The back side of the membrane is coated with a slightly modified (SM) economical version of Seaman Corporation's original KEE compound to control membrane costs while offering additional thickness and weather ability. Additionally, 45 mil FiberTite–SM–FB exhibits excellent tear, puncture, fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

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:

PHYSICAL PROPERTIES				
ASTM D6754–15	Minimum Requirements	45 mil–FB Typical		
Thickness, mm (in.) ASTM D 751	0.81 (0.032)	1.14 (0.045 nom.)		
Thickness over Fiber, mm (in) Optical method (inches)	0.18 (0.007)	.37 (0.0145)		
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 – 178°1/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	90 90	90 90		
Low Temperature Bend after Heat Aging	-30	-40		
Low Temperature Bend ASTM D 2136 (°f)	-30	-40		
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) <i>ASTM D751</i>	4.1 (590)	5.2 (750)		
Static Puncture Resistance ASTM D 5602 (99 lbf)	pass	pass		
Dynamic Puncture Resistance (J) ASTM D 5635	10	25		



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

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.

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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.

See UL directory of roofing materials or Do



FTRDS04\_04

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#### APPLICATION

45 mil FiberTite-SM-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.



РНУЅІ	CAL PROP	PERTIES	6 (cont.)		
ASTM D6754-15			Minimum Requirements	45 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 Sustained Growth   Practice G 21, 28 days Discoloration			no growth none	no growth none	
Abrasion Test, cycles D 3389 H–18 wheel / 1,000 g load			1,500	2,000+	
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 <i>MIL–C–20696C / Type II Class 2</i>		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	