MEMBRANE



45 mil FiberTite-SM

Product Data

Seaman Corporation's 45 mil FiberTite-SM 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 is a 40-oz sq. yd/nominal 45-mil (1.1 mm) thick membrane. 45 mil FiberTite-SM 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.

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 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 exhibits excellent tear, puncture, fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

45 mil FiberTite-SM membrane is manufactured in conventional, 74-in and 100-in wide by 100-ft roll goods. 45 mil FiberTite-SM is also available in customized prefabricated roll widths and lengths that incorporate integrated fastening tabs, sealing tabs and also "no-tab" rolls of membrane up to 20-ft wide by 100-ft in length. Field seaming of the membrane is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

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 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, % <i>ASTM D 751 - strip</i>	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°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) ASTM D751	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 www.fibertite.com

FiberTite® is a registered trademark of Seaman Corporation.

BBA

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

CRRC DC196



As to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 34KL, 48PO, 97P9



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APPLICATION

45 mil FiberTite-SM Roofing Systems carry extensive FM Global and Underwriters Laboratories approvals. 45 mil FiberTite-SM Roofing Systems can be installed by mechanically fastening the membrane with FiberTite Magnum Fasteners and Stress Plates or adhering the membrane in FTR 190e bonding adhesive to preapproved substrates. 45 mil FiberTite-SM can also be installed in typical ballast configurations using conventional stone or paver ballast.

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.





PHYSI	CAL PROI	PERTIES	(cont.)		
ASTM D6	754-15		Minimum Requirements	45 mil 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) A <i>STM D882</i>			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		
ore A Hardness TM D2240		87			
Flame Resistance MIL-C-20696C / Type II Class 2		pass			
Dil 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	
nitial 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	
nitial Thermal Emittance ASTM C1371	0.85	0.85	0.89	0.88	
Thermal Emittance (3 yr aged) A <i>STM C1371</i>	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	