



8530 FiberTite

Product Data

Seaman Corporation's 8530 FiberTite membrane was introduced in 1979. Then, as now, the 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

8530 FiberTite is a 30-oz sq. yd/nominal 36-mil (0.9 mm) thick membrane and was used as the benchmark membrane for the development of ASTM D 6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing. In addition to exceeding the ASTM minimum standards, 8530 FiberTite meets or exceeds the physical properties and performance characteristics of most competitive 50-mil membranes.

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.

8530 FiberTite 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, 8530 FiberTite exhibits superior tear, puncture, fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

8530 FiberTite membrane is manufactured in conventional 56-in, 74-in, and *100-in wide by 100-ft roll goods. 8530 FiberTite 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.

A fleece back version of 8530 FiberTite is also available. The 8530 FiberTite fleece back membrane incorporates a 6-oz per sq. yd non-woven polyester felt, heat bonded to the back side of the membrane with a 3-in selvage edge for field welding. 8530 FiberTite fleece back is manufactured in conventional 72-in by 80-ft roll goods.

PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	8530 Typical
Thickness, mm (in.) <i>ASTM D 751</i>	0.79 (0.031)	.91 (0.036 nom.)
Thickness over Fiber, mm (in) <i>Optical method (inches)</i>	0.15 (0.006)	.23 (0.009)
Breaking Strength, N (lbf) <i>ASTM D 751 proc. B - strip</i>	1175 (265)	1557 (350)
Elongation at Break, % <i>ASTM D 751 - strip</i>	15	18
Tear Strength, N (lbf) <i>ASTM D 751 Proc. B. Tongue Tear</i>	335 (75)	445 (100)
Linear Dimensional Change <i>ASTM D 1204 max (%)</i>	1.3	0.63
Fabric Adhesion, N/m (lbf/in) <i>ASTM D 751</i>	225 (13)	no peel
Retention of Properties after Heat Aging <i>ASTM D 3045 - 176°F/56 days</i>		
Breaking Strength, strip, % original	90	90
Elongation at Break, strip, % original	90	90
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend <i>ASTM D 2136 (°f)</i>	-30	-30
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>	1780 (400)	> Fabric Break
Hydrostatic Resistance, Mpa (psi) <i>ASTM D751</i>	3.5 (500)	4.8 (700)
Static Puncture Resistance <i>ASTM D 5602 (99 lbf)</i>	pass	pass
Dynamic Puncture Resistance (J) <i>ASTM D 5635</i>	10	20



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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ROOFING SOLUTIONS

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 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

8530 FiberTite Roofing Systems carry extensive FM Global and Underwriters Laboratories approvals. 8530 FiberTite 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 pre-approved substrates. 8530 FiberTite can also be installed in typical ballast configurations using conventional stone or paver ballast. 8530 FiberTite fleece back versions can be adhered in FTR 290, FTR 390 or FTR 490 adhesives 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.

*Targeted availability for 100-in wide 8530 FiberTite is fall of 2008.

PHYSICAL PROPERTIES (cont.)

ASTM D6754-02	Minimum Requirements	8530 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 <i>Practice G 21, 28 days</i>	no growth none	no growth none
Sustained Growth Discoloration		
Abrasion Test, cycles <i>D 3389 H-18 wheel / 1,000 g load</i>	1,500	1,500
Additional Physical Properties		
Tensile Strength (psi) <i>ASTM D882</i>	8500	
Breaking Strength (lbs) <i>ASTM D751, Grab Method</i>	450	
Puncture Resistance (lbs) <i>ASTM D751, Bursting Strength</i>	350	
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 (Color DC196 Off-White)		
Solar Reflectance <i>ASTM E903</i> <i>ASTM E1918</i>	79% 83%	
Solar Reflectance (3 yr aged) <i>ASTM C1549</i>	Un-Cleaned 66%	Cleaned 78%
Solar Emittance <i>ASTM E408</i> <i>ASTM C1371</i>	95% 85%	
Solar Emittance (3 yr aged) <i>ASTM C1371</i>	Un-Cleaned 74%	Cleaned 81%
Energy Star	yes	
Solar Reflective Index (SRI) <i>ASTM E1980</i>	98.54	
LEED 2.2 - Heat Island Effect <i>SS Credit 7.2</i>	1 Credit	



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