



## 3180 FiberTite-XTreme

### Product Data

Seaman Corporation's 3180 FiberTite-XTreme features a 46 x 44 / 1,000 x 1,000 denier woven polyester 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

3180 FiberTite-XTreme is an 80-oz sq. yd/nominal 90-mil (2.3 mm) thick membrane. 3180 FiberTite-XTreme is the most intense thermoplastic membrane available. 3180 FiberTite-XTreme has no equal and surpasses the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing as much as three fold.

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.

3180 FiberTite-XTreme 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 version of Seaman Corporation's original KEE compound. Additionally, 3180 FiberTite-XTreme exhibits extreme puncture and tear resistance for the most abusive roof areas as well as the historical fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

3180 FiberTite-XTreme membrane is manufactured in conventional 56-in by 80-ft roll goods. Field seaming of the membrane is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

#### PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	3180 Typical
<b>Thickness, mm (in.)</b> <i>ASTM D 751</i>	0.79 (0.031)	2.29 (0.090 nom.)
<b>Thickness over Fiber, mm (in)</b> <i>Optical method (inches)</i>	0.15 (0.006)	.76 (0.030)
<b>Breaking Strength, N (lbf)</b> <i>ASTM D 751 proc. B - strip</i>	1175 (265)	3078 (692)
<b>Elongation at Break, %</b> <i>ASTM D 751 - strip</i>	15	30
<b>Tear Strength, N (lbf)</b> <i>ASTM D 751 Proc. B. Tongue Tear</i>	335 (75)	667 (150)
<b>Linear Dimensional Change</b> <i>ASTM D 1204 max (%)</i>	1.3	0.5
<b>Fabric Adhesion, N/m (lbf/in)</b> <i>ASTM D 751</i>	225 (13)	260 (15)
<b>Retention of Properties after Heat Aging</b> <i>ASTM D 3045 - 176°F/56 days</i>		
<b>Breaking Strength, strip, % original</b>	90	90
<b>Elongation at Break, strip, % original</b>	90	90
<b>Low Temperature Bend after Heat Aging</b>	-30	-40
<b>Low Temperature Bend</b> <i>ASTM D 2136 (°f)</i>	-30	-40
<b>Change in Weight after Exposure in Water</b> <i>D 471 158°F, 166 h, one side only, max. (%)</i>	0.0, +6.0	0.0, +3.7
<b>Factory Seam Strength, N (lbf)</b> <i>ASTM D 751 Grab Method</i>	1780 (400)	90% of Fabric Break
<b>Hydrostatic Resistance, Mpa (psi)</b> <i>ASTM D751</i>	3.5 (500)	6.9 (1000)
<b>Static Puncture Resistance</b> <i>ASTM D 5602 (99 lbf)</i>	pass	pass
<b>Dynamic Puncture Resistance (J)</b> <i>ASTM D 5635</i>	10	> 50



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 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

3180 FiberTite-XTreme Roofing Systems carry extensive FM Global and Underwriters Laboratories approvals. 3180 FiberTite-XTreme Roofing Systems can be installed by mechanically fastening the membrane with FiberTite Magnum Fasteners and Stress Plates or adhering the membrane in FTR 490 bonding adhesive to pre-approved substrates. 3180 FiberTite-XTreme 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.

### PHYSICAL PROPERTIES (cont.)

ASTM D6754-02	Minimum Requirements	3180 Typical
<b>Accelerated Weathering</b> <i>Practice G 155 / xenon</i>	5000hr	>10000hr
<b>cracking (7x magnification)</b>	none	none
<b>crazing (7x magnification)</b>	none	none
<b>Accelerated Weathering</b> <i>Practice G 154 / UVA</i>	5000hr	>10000hr
<b>cracking (7x magnification)</b>	none	none
<b>crazing (7x magnification)</b>	none	none
<b>Fungi Resistance</b> <i>Practice G 21, 28 days</i>	no growth none	no growth none
<b>Sustained Growth Discoloration</b>		
<b>Abrasion Test, cycles</b> <i>D 3389 H-18 wheel / 1,000 g load</i>	1,500	2,000+
<b>Additional Physical Properties</b>		
<b>Tensile Strength (psi)</b> <i>ASTM D882</i>	> 9500	
<b>Breaking Strength (lbs)</b> <i>ASTM D751, Grab Method</i>	1096	
<b>Puncture Resistance (lbs)</b> <i>ASTM D751, Bursting Strength</i>	> 800	
<b>Water Vapor Transmission</b> <i>ASTM E96 proc. A (gm/m<sup>2</sup>/24hrs)</i>	1.3	
<b>Shore A Hardness</b> <i>ASTM D2240</i>	87	
<b>Flame Resistance</b> <i>MIL-C-20696C / Type II Class 2</i>	pass	
<b>Oil Resistance, MIL-C 20696C</b> <i>No swelling, cracking or leaking</i>	none	
<b>Hydrocarbon Resistance, MIL-C-20696C</b> <i>No swelling, cracking or leaking</i>	none	
<b>Energy Attributes (Color DC196 Off-White)</b>		
<b>Solar Reflectance</b> <i>ASTM E903</i> <i>ASTM E1918</i>	79% 83%	
<b>Solar Reflectance (3 yr aged)</b> <i>ASTM C1549</i>	Un-Cleaned 66%	Cleaned 78%
<b>Solar Emittance</b> <i>ASTM E408</i> <i>ASTM C1371</i>	95% 85%	
<b>Solar Emittance (3 yr aged)</b> <i>ASTM C1371</i>	Un-Cleaned 74%	Cleaned 81%
<b>Energy Star</b>	yes	
<b>Solar Reflective Index (SRI)</b> <i>ASTM E1980</i>	98.54	
<b>LEED 2.2 - Heat Island Effect</b> <i>SS Credit 7.2</i>	1 Credit	



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