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## PRODUCT DATA SHEET

# BFT-1001-60FB

Fleece Backing Sheets: 45-60-80mil



BFT-1001-60FB is a PVC thermoplastic membrane produced with a polyester scrim reinforcement and incorporated a heavy fleece backed underside. Interlocking, multiple-layer, uniformly arranged continuous filament strands are needle punched with thousands of barbed needles, creating an extremely durable, strong yet light and flexible protection layer.

### CHARACTERISTICS & ADVANTAGES

#### ■ Highly Flexible, Superior Weldability

Making it easy to conform to complex geometries and ease of installation

#### ■ Excellent Chemical Resistance

Inherently resistant to oils, air conditioning coolants, fuels and grease.

#### ■ Excellent Tear Strength Resistance

#### ■ Superior Fire Resistance

#### ■ Long-term Weatherability

Fully formulated monolithic top-ply

#### ■ Energy Savings

The White provide exceptional reflectivity & emissivity

#### ■ Spunbond 3.5 oz/yd<sup>2</sup>. Polyester Fleece Back Mat

Provides a built-in separation layer against rough concrete decks or existing asphaltic-based roofing systems

### PRECAUTIONS

BFT-1001-60FB membrane rolls must be tarped and elevated to keep them dry prior to installation. If the fleece gets wet, use a wet vac system to help remove moisture from the fleece.

### COLORS

Top	Bottom
White	Grey

### PACKAGING AND DIMENSION

THICKNESS (mils)	45 (1.14mm)	60 (1.52mm)	80 (2.03mm)
ROLL WEIGHT (lb)	194.0 (88kg)		253.5 (115kg)
ROLL LENGTH (ft)	82 (25m)	65.6 (20m)	
ROLL WIDTH (ft)	6.89 (2.1m)		
COVERAGE (ft²)	564.8 (52.5m²)	451.8 (42m²)	

### APPLICATION

BFT-1001-60FB can be installed in mechanically attached or fully adhered systems. For fully adhered systems, Bonding adhesives are approved. Please refer to the specific adhesive data sheet for application guidelines. For mechanically attached systems, please consult your BFT-1001-60FB representative for specific fastening patterns. All laps must be heat-welded to ensure a water tight seal.



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## PHYSICAL PROPERTIES

**Meets the requirements ASTM D4434**

**Standard Specification for Poly (Vinyl Chloride) Sheet Roofing (Type III)**

Type	ASTM Test Method	ASTM Min Values	Typical Value		
			45 mil	60 mil	80 mil
Thickness over scrim	ASTM D7635	16mil(0.4mm)	17 mil (0.413 mm)	27 mil (0.68 mm)	33 mil (0.84 mm)
Weight (lb/ft <sup>2</sup> ) (kg/m <sup>2</sup> )	N/A	N/A	0.328 (1.60)	0.429 (2.10)	0.565 (2.76)
Breaking Strength	ASTM D751	200lbf/in(890N)	MD:320(1424) CD: 280(1246)	MD:335(1490) CD:300(1335)	MD:350(1557) CD:322(1433)
Breaking Strength (after heat aging)	ASTM D3045	90%	90%	90%	90%
Elongation at Break	ASTM D751	15% MD&CD	20%	20%	20%
Elongation at Break (after heat aging)	ASTM D3045	90%	90%	90%	90%
Seam Strength (% of tensile or breaking strength)	ASTM D751	75%	75%	75%	75%
Tearing-Strength	ASTM D751	45lbf(200 N)	MD:90lbf(401N) CD:65lbf(289N)	MD:105lbf(467N) CD:75lbf(334N)	MD:110lbf(489N) CD:85lbf(379N)
Low Temp. Bend	ASTM D2136	No cracks 5x at -40°C	Pass	Pass	Pass
Dimensional Stability	ASTM D1204	<0.5%	<0.3%	<0.3%	<0.5%
Weight Change after Immersion in Water	ASTM D570	±3%	2%	2%	2%
Static Puncture Resistance	ASTM D5602	Pass	Pass	Pass	Pass
Dynamic Puncture Resistance	ASTM D5635	Pass	Pass	Pass	Pass
Accelerated Weathering, min	5,000 hrs				
Cracking (@7x magnification)	ASTM G154	No Cracks	Pass @ >5,000 hrs	Pass @ >5,000 hrs	Pass @ >5,000 hrs
Discoloration (by observation)	ASTM G154	Negligible	Negligible	Negligible	Negligible
Crazing (@ 7x magnification)	ASTM G154	No Crazing	Pass @ >5,000 hrs	Pass @ >5,000 hrs	Pass @ >5,000 hrs

\*MD = Machine Direction, CD = Cross Machine Direction

\*Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.

## Radiative Properties for Cool Roof Rating

Type	ASTM Test Method	Color	Initial			After 3 years		
			45 mil	60 mil	80 mil	45 mil	60 mil	80 mil
Solar Reflectance	ASTM C1549	White	0.87	0.87	0.87	0.70	0.70	0.70
Thermal Emittance	ASTM C1371	White	0.89	0.89	0.89	0.88	0.88	0.88
Solar Reflectance Index (SRI)	ASTM E1980	White	110	110	110	85	85	85