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PRODUCT DATA SHEET

B F T - 1 1 0 1 0 T P O

Smooth-Surface Sheets: 45-60-80mil

BFT-11010 TPO is a thermoplastic polyolefin sheet produced with a polyester scrim reinforcement. The fabric provides high breaking and tearing strength, as well as excellent puncture resistance. The membrane is environmentally friendly and safe to install with heat weldability.

CHARACTERISTICS & ADVANTAGES

■ **Great Value**

Excellent performance at a cost-effective price

■ **Excellent Seam Strength**

Heat-welded seams provide greater seam strength to taped and other seams

■ **Long-term Weathering**

Excellent long-term heat and UV resistance

■ **Strong physical properties**

Outstanding puncture resistance and low temperatures

■ **Energy Saving**

Highly reflective and emissive white roof can help reduce energy costs and urban heat island effect

■ **Environmentally friendly** and stable formulation

STORAGE

Store rolls in a clean, dry location and cover as necessary to protect rolls from environmental damage such as extreme cold, heat, or moisture. Monitor varying environmental conditions during storage, handling and application of BFT-10010 TPO.

COLORS

Top	Bottom
White	**Grey**

APPLICATION

BFT-11010 TPO 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-10010 TPO representative for specific fastening patterns. All laps must be heat-welded to ensure a watertight seal.

PACKAGING AND DIMENSION

THICKNESS (mils)	45 (1.14mm)	60 (1.52mm)	80 (2.03mm)
ROLL WEIGHT (lb)	136.7 (62kg)		185.2 (84kg)
ROLL LENGTH (ft)	82 (25m)	65.6 (20m)	
ROLL WIDTH (ft)	6.56 (2.0m)		
COVERAGE (ft^2)	537.9 ($50m^2$)	430.4 ($40m^2$)	

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Quanzhou Big Fir Tree Import&Export Co.,Ltd
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PHYSICAL PROPERTIES

Meets the requirements ASTM D6878

Type	ASTM Test Method	ASTM Min Values	Typical Value		
			45 mil	60 mil	80 mil
Thickness over scrim	ASTM D7635	0.015in(0.381mm)	0.018(0.457)	0.024(0.610)	0.034(0.864)
Weight (lb/ft²) (kg/m²)	N/A	N/A	0.233(1.14)	0.311(1.52)	0.416(2.03)
Breaking Strength	ASTM D751	220lbf/in(976N)	MD:235(1048) CD:225(1000)	MD:250(1113) CD:245(1090)	MD:280(1246) CD:270(1201)
Elongation at Break	ASTM D751	15% MD&CD	25%	25%	25%
Tearing-Strength	ASTM D751	55lbf(245N)	MD:65(289) CD:90(400)	MD:70(311) CD:100(445)	MD:80(456) CD:110(489)
Factory Seam Strength	ASTM D751	66lbf(290N)	66 (290)	66 (290)	66 (290)
Brittleness Point	ASTM D2137	-40℃No Cracks	-40℃	-40℃	-40℃
Ozone Resistance	ASTM D1149	No Cracks	PASS	PASS	PASS
Dimensional Stability	ASTM D1204	≤±1%	0.4%	0.4%	0.4%
Water Absorption	ASTM D471	≤±3%	2%	2%	2%
Weather Resistance	ASTM G155	10080kj/m²·nm @340nm (4000hrs@0,70W)	PASS	PASS	PASS
Properties After Heat Aging(240吓(115℃))	ASTM D573	32 weeks	PASS	PASS	PASS
Breaking Strength	ASTM D 751	90%	> 90%	> 90%	> 90%
Elongation	ASTM D 751	90%	> 90%	> 90%	> 90%
Tearing Strength	ASTM D 751	60%	> 60%	> 60%	> 60%
Weight Change	ASTM D 751	1%	< 1%	< 1%	< 1%

*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	0.77	0.76	0.79	0.70	0.68	0.70
Thermal Emittance	ASTM C1371	White	0.87	0.90	0.90	0.86	0.83	0.86
Solar Reflectance Index (SRI)	ASTM E1980	White	95	94	99	85	81	85

Solar Reflectance Index (SRI) is calculated perASTM E1980. The SRI is a measure of the roof's ability to reject solar heat, as shown by a small temperature rise. It is defined so that a standard black (reflectance 0.05, emittance 0.90) is 0 and a standard white (reflectance 0.80, emittance 0.90) is 100. Materials with the highest SRI values are the coolest choices for roofing. Due to the way SRI is defined, particularly hot materials can even take slightly negative values and particularly cool materials can even exceed 100

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