



StrongHold TPO is a proven, proprietary membrane formulation composed of thermoplastic polyolefin, which contains patented ultra-high-strength Aramid yarns along the lap edge to provide maximum tensile strength and puncture resistance for mechanically attached systems where the fastener anchors the roof membrane.

FEATURES & BENEFITS

- Meets or exceeds the criteria of ASTM D6878 Standard Specification for Thermoplastic Polyolefin-Based Sheet Roofing
- Offers superior UV performance and chemical resistance
- Contains 10% post-industrial recycled content

APPROVALS

FM Approved

UL Classified

PACKAGING

Package: Plastic shrink wrap

Pallets per truckload (typical): 8-15 (varies depending on product thickness and dimensions)

Membrane Thickness	Size	Rolls / Pallet
45 mils	10' x 100'	10
60 mils	6.5' x 100'	10
60 mils	10' x 100'	10
80 mils	6.5' x 75'	10
80 mils	10' x 75'	10

APPLICATION



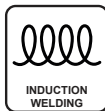
BONDING ADHESIVE



LOW RISE FOAM ADHESIVE



MECHANICALLY ATTACHED



INDUCTION WELDING

StrongHold TPO membranes can be applied in bonding adhesive, or low-rise foam adhesive, as well as mechanically attached at the seams or induction welded.

Product application should be suspended immediately and our technical service personnel contacted if the results being obtained are less than desirable.

Specific application methods may vary, depending on the roof system being installed, as well as the substrate and type of

insulation being installed. Please refer to the BITEC Roofing Products Installer's Guide for detailed application guidelines.

As with any roofing project, good roofing practices should always be followed.

STORAGE & HANDLING

Store the rolls in their original containers with labels unbroken in a clean, dry, protected location and within the temperature range required to provide for proper application. Keep rolls stored on their original pallet. Never stack materials on top of the rolls. Avoid dropping rolls on the edges to avoid potential deformation that can affect their ability to roll out evenly. Handle and place roofing materials and equipment in a manner to avoid permanent deflection of the deck.

PRECAUTIONS

Safety first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.



Technical Schedule					
Material Classification	Type III				ASTM D 4434
Fabric Type	Polyester / Aramid Knit				
Base Fabric Weight	3.01 oz/yd ² fabric (102 g/m ²)				
	Minimum	Typical			
		45 mils	60 mils	80 mils	
Thickness Over Scrim		16 mils	20 mils	28 mils	
Tensile Strength, Grab (Warp/Fill)	270 / 240 lbs	350 / 345 lbs	350 / 350 lbs	350 / 390 lbs	ASTM D751
Seam Strength (Warp/Fill) 95% of Tensile Strength, Grab	225 / 272 lbs	328 / 341 lbs	371 / 375 lbs	371 / 375 lbs	
Ply Adhesion (at Aramid edge)	20 lbs / 2 in	28 lbs / 2 in			
Seam Adhesion (Thermal)	30 lbs/in	45 lbs/in			
Tensile Elongation Grab (Warp/Fill)	15 / 15%	22 / 22%			
Tensile Strength (retained after 2-year weathering)	90% minimum				
Tensile Strength (retained after oven aging)	90% minimum				
Tensile Elongation (retained after 2-year weathering)	90% minimum				
Tensile Elongation (retained after oven aging)	90% minimum				ASTM D871
Tear Strength, Tongue (Warp/Fill)	45 / 45 lbs	60 / 57 lbs	60 / 53 lbs	60 / 54 lbs	ASTM D5884
Abrasion Resistance (H18 / 1 kg)	2,000 cycles	3,000 cycles			ASTM D3884
Water Absorption	<3%	2%			ASTM D471
Dimensional Stability (1 h/100C)	<1%	<0.5%			ASTM D1204
Static Puncture Resistance	Pass				ASTM D5602
Dynamic Puncture Resistance	Pass				ASTM D5635
Ozone Resistance (no cracks)	Pass				ASTM D1149
Low Temperature Bend	-40°F (-40°C)				ASTM D2136
Solar Reflectance (white)	0.86				ASTM C1549
Solar Emittance (white)	0.86				ASTM E408
Solar Reflectance Index (white)	108				ASTM E1980
Post-Industrial Recycled Content	10%				

