

**GenFlex Peel & Stick™  
TPO Membranes**

**45 mil (1.14 mm) & 60 mil (1.52 mm)**

**DESCRIPTION**

GenFlex Peel & Stick™ TPO (HW) and (SA) membranes meet or exceed all of the requirements of ASTM D 6878-03 Thermoplastic Polyolefin membrane. The membranes are reinforced with high quality polyester or fiberglass scrim for added strength and stability.

**MEMBRANE PHYSICAL PROPERTIES**

PROPERTY	ASTM TEST METHOD	MINIMUM	TYPICAL VALUES
Thickness, min, mil (mm)	D 751	39 (1.0)	45 (1.14) 60 (1.52)
Thickness over scrim, mil (mm) 45 (1.14) 60 (1.52)	D 6878 Annex A1	12 (0.305)	15 (0.38) 21 (0.53)
Breaking strength, min, lbf (N)	D 751	220 (976)	330 (1500)
Elongation at reinforcement break, min, %	D 751	15	30
Tearing strength, min, lbf (N)	D 751	55 (245)	156 (694)
Brittleness point, max, °F (°C)	D 2137 Method B	-40 (-40)	-49 (-45)
Ozone resistance, no cracks	D 1149	Pass	Pass
Properties after heat aging: (retained values)	D 573		
Breaking strength, % min.	D 751	90	90
Elongation at reinforcement break, % min	D 751	90	90
Tearing strength, % min.	D 751	60	60
Weight change (mass), max %	D 751	±1	-0.02
Linear dimensional change, max, %	D 1204	±1	-0.01
Water absorption, max, mass %	D 471	±3	+1.2
Factory seam strength, lbf (N)	D 751	66 (290)	75 (330)
Weather Resistance			
Visual	G 155	Pass	Pass
Breaking Strength, % min.	90	90	90
Elongation at Reinforcement Break, min, %	90	90	90

**ADHESIVE PHYSICAL PROPERTIES**

PROPERTY	ASTM TEST METHOD	MINIMUM	TYPICAL VALUES
Color	n/a	n/a	Black
Nominal thickness – inches (mm)	E 408-71	n/a	0.008 (0.20)
Weight mil – lb/ft <sup>2</sup> (kg/m <sup>2</sup> )	n/a	n/a	0.04 (0.20)
Permeability	E 96	n/a	0.6
Specific gravity	D 71	n/a	0.93
Viscosity - cps	D 3236	n/a	30,000

**INSTALLATION**

Peel & Stick TPO Membranes are designed to be installed as fully adhered systems. Please consult current GenFlex Peel & Stick TPO Specifications for specific application needs.

**PREPARATION OF SUBSTRATES**

1. Substrates must be clean, dry, smooth, and free of sharp edges, tins, loose or foreign materials, oil, grease, or other materials which may damage the membrane.
2. All rough surfaces which could damage the membrane shall be repaired as specified to offer a smooth substrate.
3. All surface voids greater than 1/4" (6.35 mm) wide shall be properly filled with an acceptable material.

**INSTALLATION - MEMBRANE**

1. Peel & Stick TPO is intended to be installed over dry, smooth, dust free approved substrates.
2. GenFlex Clear Primer should be applied with a medium nap roller at a coverage rate of 600 ft<sup>2</sup> (55.74 m<sup>2</sup>) per pail on concrete, masonry, and other porous and irregular substrates or on all surfaces when the temperature drops below 50°F (10°C).
3. Unroll enough GenFlex Peel & Stick membrane to cover the approved substrate. Position the membrane over the substrate for proper alignment and allow it to relax for 30 minutes.
4. Fold the outer half of the membrane back onto itself exposing the release liner. Remove the release liner by pulling at a 45° angle exposing the pre-applied adhesive. Roll or mate the membrane into the substrate starting in the middle of the panel working out to both edges/sides to minimize wrinkling of the panel.
5. Repeat the same procedure on the other half of the membrane. Make sure that the release liner remains in place over the seam areas when using Peel & Stick (SA) membrane.
6. Using a broom, apply positive downward pressure to the GenFlex Peel & Stick membrane, working from the center out to the edges of the membrane to remove any trapped air and to increase contact points with the substrate. A weighted roller meeting the requirements of 5 lb/li (pounds per linear inch) must be used in the final rolling stages of the membrane.

**INSTALLATION - SEAMS**

1. Fold back the lap area without creasing the membrane and expose the bottom side of the membrane.
2. Prior to heat welding the **TPO (HW)** membrane, clean the surface of the membrane with the appropriate membrane cleaner to remove any excess dirt or debris.
3. Prior to seaming the **TPO (SA)** membrane, apply Clear Primer to the entire seam of the TPO membrane **with a Scrub Pad and Handle. ROLLER APPLICATION IS NOT ACCEPTABLE.** Allow the primer to dry to the touch of a clean dry finger. Remove the release liner and mate the two surfaces together with a broom or by hand pressure avoiding wrinkles and fish mouths.
4. Using a hand roller, roll the entire seam area with a silicone roller in perpendicular then parallel motions. Apply Edge Caulk to all (SA) seam areas to complete the seaming process.

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**PRODUCT DATA**

AVAILABLE COLORS & SIZES			
<b>(HW)</b>			
White	45 mil	30040	37.5' x 100' (952.50 mm x 30.48 m)
White	45 mil	30042	6.25' x 100' (1.91 m x 30.48 m)
White	45 mil	30053	10' x 100' (3.05 m x 30.48 m)
White	60 mil	30048	37.5' x 100' (952.50 mm x 30.48 m)
White	60 mil	30046	6.25' x 100' (1.91 m x 30.48 m)
White	60 mil	30054	10' x 100' (3.05 m x 30.48 m)
<b>(SA)</b>			
White	45 mil	30069	37.5' x 100' (952.50 mm x 30.48 m)
White	45 mil	30067	6.25' x 100' (1.91 m x 30.48 m)
White	60 mil	30073	37.5' x 100' (952.50 mm x 30.48 m)
White	60 mil	30071	6.25' x 100' (1.91 m x 30.48 m)



**LEED INFORMATION**

Reflectivity, % (E 903) White	74.0
Emissivity (E 408) White	0.84
Solar Reflectance Index (ASTM D 1980) White	90
Manufacturing Location:	Tuscumbia, AL

**STORAGE**

Store in original, unopened packaging and away from sources of punctures and physical damage.

Assure that structural decking will support the loads incurred by the material stored on roof top. The deck load limitations should be specified by the project designer.

**SHELF LIFE**

12 months

**PRECAUTIONARY DATA**

To avoid sources of punctures and physical damage, take care when moving, transporting, or handling.

Waste products such as petroleum products, greases, animal fats, and oils (mineral and vegetable) should be isolated from the membrane.

Contact the GenFlex Technical Department for specific recommendations.

Refer to Material Safety Data Sheet for additional information.