

**DESCRIPTION**

GenFlex Fleece Backed TPO membranes meet or exceed all of the requirements of ASTM D 6878 Thermoplastic Polyolefin Membranes. The membrane is internally reinforced with a weft inserted polyester scrim and externally with an 8 oz polyester fleece backing. The membrane can be fully adhered to a variety of approved substrates with GenFlex FB Bonding Adhesive or hot asphalt or it can be mechanically attached.

**PHYSICAL PROPERTIES**

PROPERTY	ASTM TEST METHOD	TYPICAL VALUES
Thickness, mil (mm)	D 751	45 (1.14) ± 10% 60 (1.52) ± 10%
Breaking strength, min, lbf (N)	D 751	220 (975)
Elongation at reinforcement break, min %	D 751	15
Tearing strength, min, lbf (N)	D 751	55 (245)
Brittleness point, min, °F (°C)	D 2137	-40 (-40)
Ozone resistance, no cracks	D 1149	Pass
Properties after heat aging: (retained values)	D 573	
Breaking strength, % min.	D 751	90
Elongation at reinforcement break, % min	D 751	90
Tearing strength, % min.	D 751	60
Weight change (mass), max %	D 751	-0.02
Linear dimensional change, max, %	D 1204	± 0.15
Factory seam strength, lbf (N)	D 751	65 (289)
Weather Resistance		
Visual	G 155	Pass
Breaking Strength, % min.	90	90
Elongation at Reinforcement Break, min, %	90	90
Water Vapor Permeance – Perm	E 96	0.0122
Puncture Resistance – lbf (N)	FTM 101C Method 2031	372 (1654)

**INSTALLATION**

Please consult current GenFlex TPO specifications and GenFlex TPO FB Bonding Adhesive product data sheet for additional installation requirements.

**PREPARATION OF SUBSTRATES**

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.

All rough surfaces which could damage the membrane shall be repaired as specified to offer a smooth substrate.

All surface voids greater than 1/4" (6.35 mm) wide shall be properly filled with an acceptable material.

**PRODUCT DATA SHEET**

**GenFlex Fleece Backed**

**TPO Membrane**

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

**PRODUCT DATA**

AVAILABLE COLORS & SIZES	
White	
45 mil	10' x 100' (3.05 m x 30.48 m)
60 mil	

**LEED INFORMATION**

Reflectivity, % (ASTM E 908) White	0.81
Thermal Emittance (E 408) White	0.95
Solar Reflectance Index (ASTM D 1908) White	102
Recycled Content Post Consumer Post Industrial	0% 15%
Manufacturing Location	Tuscumbia, AL

**STORAGE**

Product must be stored in original wrapper and kept dry until use. Opened material must be installed or stored in a clean dry place off the ground and tarped.

Store TPO off of the ground and cover with tarps.

**SHELF LIFE**

Not applicable

**PRECAUTIONARY DATA**

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

Should membrane get wet, open the roll, turn it over and allow to dry completely before installation.

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage. Repair any wrapper tears or punctures to protect from moisture.

Refer to Material Safety Data Sheet for additional information.

