

PRODUCT DATA SHEET

**GenFlex Fleece Backed
TPO Membrane**

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

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 a 8 oz polyester fleece backing. The membrane can be fully adhered to a variety of approved substrates with GenFlex FB Bonding Adhesive.

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	560 (2491)
Elongation at reinforcement break, min %	D 751	30
Tearing strength, min, lbf (N)	D 751	108 (480)
Brittleness point, min, °F (°C)	D 2137	-50 (-46)
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)
Solar Reflectance	C 1549	.79

PRODUCT DATA

Color	White
Size	10' x 100' (3.05 m x 30.48 m)

LEED	Test Method	White
Reflectivity**	ASTM C 1549	0.79
Emissivity**	ASTM C 1371	0.78
Solar Reflectance Index (SRI)***	ASTM D 1980-01	96
Recycled Content:		
Post Consumer		0%
Post Industrial		15%
Manufacturing Location		Tuscumbia, AL

Cool Roof Rating Council (CRRC)	White 0015
Solar Reflectance Initial*	0.79
Solar Reflectance Weathered*	0.69
Thermal Emittance Initial*	0.78
Thermal Emittance Weathered*	0.81
Solar Reflectance Index (SRI)***	96

* Values were obtained from independent testing by CRRC.

**Values were obtained from independent testing by Atlas Material Testing DSET Laboratories

***SRI was calculated using the SRI calculator from the USGBC



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.

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.



Only applicable in the U.S.A.