

TremPly® TPO 45 mil Membrane

PHYSICAL PROPERTIES ASTM TEST METHOD		ASTM D6878 MINIMUM	TREMPLY TYPICAL TEST DATA
1. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format			
2. Data is based upon typical product performance, and is subject to normal manufacturing tolerance and variance			
Nominal Thickness	ASTM D751	0.039" (min) (0.99 mm)	0.045" (1.14 mm)
Breaking Strength	ASTM D751 Grab Method	220 lbf/in (38.5 kn/m)	280 lbf x 270 lbf (417.2 x 402.3 kg/m)
Factory Seam Strength	ASTM D751	66 lbf (98.34 kg/m)	110 lbf (membrane failure) (163.9 kg/m)
Elongation of Break	ASTM D751	15%	30%
Heat Aging	ASTM D573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D751 8" x 8" (203 x 203 mm) Sample	55 lbf (81.95 kg/m)	100 lbf x 120 lbf (149 x 178.8 kg/m)
Puncture Resistance	FTM 101C Method 2031	Not Established	290 lb (131 kg)
Cold Brittleness	ASTM D2137	-40°C	-40°C
Permeance	ASTM E96	Not Established	0.08 Perms
Dimensional Change	ASTM D1204 @ 158°F (70°C), 6 hrs	+/-1%	0.4%
Water Absorption	ASTM D471 @ 158°F (70°C), 1 week	+/-3.0%	0.7%
Hydrostatic Resistance	ASTM D751 Method D	Not Established	380 psi
Ozone Resistance	ASTM D1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
SRI (Solar Reflectance Index) Initial/Aged	N/A	N/A	94/81, 83 Aged Title 24
Reflectivity (white) Initial/Aged	ASTM C1549/ ASTM E903	N/A	0.76/0.68, 81.9% Reflectance
Emissivity (white) Initial/Aged	ASTM C1371/ ASTM E403	N/A	0.90/0.83, 0.94
Weather Resistance	ASTM G155/D6878	10,080 KJ/(m ² nm) at 340 nm	>20,000 KJ/(m ² nm) at 340 nm
Heat Aging	ASTM D573	240°F (115°C) for 32 weeks	60 weeks
Thickness Above Scrim	ASTM D7635	Min 30% of Total Thickness	15.8 mil (Nominal)

Product Data

ROLL SIZE	FULL SIZE ROLL	HALF ROLL SIZE
Dimensions	10' X 100' (3.05 x 30.5 m) / 8' X 100' (2.44 x 30.5 m)	5' x 100' (1.52 x 30.5 m) / 4' x 100' (1.21 x 30.5 m)
Area	1,000 sq. ft. (92.9 sq. m.) / 800 sq. ft. (74.3 sq. m.)	500 sq. ft. (46.5 sq. m.) / 400 sq. ft. (37.1 sq. m.)
Roll Weight	256 lbs. (116 kg) / 204 lbs (95 kg)	128 lbs. (58 kg) / 102.4 lb (46 kg)

Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded.

Note: Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation.

COLORS	White, Tan, Gray
STORAGE	Store rolls on their sides on pallets or shelving in a dry area
SAFETY WARNING	Membrane rolls are heavy. Position and install by at least two people.