

TremPly® Fleece-Back 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) | 375 lbf x 330 lbf (559 x 492 kg/m) |
| Factory Seam Strength | ASTM D751 | 66 lbf (98.34 kg/m) | 115 lbf (membrane failure) (171 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) | 90 lbf x 120 lbf (134 x 179 kg/m) |
| Puncture Resistance | FTM 101C Method 2031 | Not Established | >350 lb (159 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% | 0.2% |
| Water Absorption | ASTM D471 @ 158°F (70°C), 1 week | +/-3.0% | 0.7% |
| Hydrostatic Resistance | ASTM D751 Method D | Not Established | 390 psi |
| Ozone Resistance | ASTM D1149 | No visible deterioration @ 7 x magnification | No visible deterioration @ 7 x magnification |
| Reflectivity (white) Initial/Aged | ASTM C1549 | N/A | 0.76/0.68 |
| Emissivity (white) Initial/Aged | ASTM C1371 | N/A | 0.90/0.83 |
| 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) | 5' x 100' (1.52 x 30.5 m) |
| Area | 1,000 sq. ft. (92.9 sq. m.) | 500 sq. ft. (46.5 sq. m.) |
| Roll Weight | 270 lbs. (122 kg) | 144 lbs. (6.55 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.

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| 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. |