



RPI .045 Re-Flex TPO Membrane Data Sheet

MEMBRANE PHYSICAL PROPERTIES

PROPERTIES	ASTM TEST METHOD	ASTM 6878 MINIMUM	TYPICAL VALUES
NOMINAL THICKNESS	ASTM D-751	0.039 " (min)	0.045"
ELONGATION AT BREAK	ASTM D-751	15 %	30 %
BREAKING STRENGTH	ASTM D-751 Grab Method	220 lbf/inch	285 lbf x 245 lbf
TEAR STRENGTH	ASTM D-751 8" x 8" Sample	55 lbf	124 lbf x 140 lbf
COLD BRITTLINESS	ASTM D-2137	-40° C	-40° C
HEAT AGING:	ASTM D-573	90% Retention of Breaking Strength and Elongation at Break	100%
WATER ABSORPTION	ASTM D-471 @ 158 F°, 1 week	± 3.0% max.	0.7 %
FACTORY SEAM STRENGTH	ASTM D-751	66 lbf	Pass (membrane failure)
HYDROSTATIC RESISTANCE	ASTM D-751 Method D	Not Established	390 psi
OZONE RESISTANCE	ASTM D -1149	No visible deterioration @ 7 x magnification	No visible deterioration @7 x magnification
PUNCTURE RESISTANCE	FTM101C Method 2031	Not Established	290 lbs
PERMEANCE	ASTM E-96	Not Established	0.070 Perms
DIMENSIONAL CHANGE	ASTM D-1204 @158°F, 6 hrs.	±1%	0.4%
REFLECTIVITY	ASTM C-1549 & E-408	N/A	0.76
EMISSIVITY	ASTM E-408	N/A	0.90

Data is based upon typical product performance and is subject to normal manufacturing tolerance and variance. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format.

DESCRIPTION:

RPI Re-Flex 45 mil TPO thermoplastic membrane is engineered to be installed as part of a premium performance, cost competitive, single ply membrane system that provides a durable, lightweight, puncture and chemical resistant, Energy Star rated alternative to other low slope roofing systems.

Re-Flex TPO provides the benefits of a white reflective membrane that can be installed with Re-Flex Seam Tapes, Flashings and Accessories, or heat welded seams.

APPLICATION INSTRUCTIONS:

1. All substrates must be dry, clean, and free of debris and loose foreign materials including oils, grease, and other contaminants.
2. All surfaces must be smooth and free of sharp and protruding edges.
3. All voids greater than ¼ inch should be filled with an acceptable material.
4. RPI Re-Flex TPO must be installed according to RPI TPO System Specifications. Check RPI Specification Manual for system installation details.

PACKAGEING:

Thickness	Widths	Lengths	Weight
.045"	5 ft.	100 ft.	128 lbs.
	10 ft.	50 ft.	129 lbs.
		100 ft.	258 lbs.

PRECAUTION:

1. When moving/transporting; avoid dragging rolls. Do not allow membrane to come into contact with objects that can puncture, cut, or tear the membrane.
2. Membrane rolls are heavy. Take adequate precautions when moving or positioning/installing.
3. Refer to Material Safety Data Sheets (MSDS) for safety information and disposal.

RECOMMENDED STORAGE:

1. Protect membrane from puncture and other physical damage.
2. Before stocking/loading rooftop, check existing structure to ensure dead load limitations are not exceeded. Consultation with a structural engineer is recommended.
3. Keep product protected from weather in original wrappers.

Information stated on this Roofing Products International, Inc. Data Sheet is intended to provide basic guidance as to storage, application, coverage, shipping, and other product data. Information is subject to change without notice. For more information regarding this product, refer to RPI MSDS, and the RPI Specification Manual. As neither Roofing Products International, Inc. nor its representatives practice structural engineering or architecture, RPI disclaims any responsibility and offers no opinion as to the structural soundness of any structure on which its products may be applied. The building owner should obtain the services of a competent structural engineer before proceeding. RPI accepts no responsibility for any structural failure or resultant damages. No Roofing Products International, Inc. representative is authorized to vary this disclaimer.



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