RPI RE-FLEX SYSTEMS

RPI ROYAL EDGE SYSTEMS

RPI .060 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 " (mim)	0.060"
ELONGATION AT BREAK	ASTM D-751	15 %	28 %
BREAKING STRENGTH	ASTM D-751 Grab Method	220 lbf/inch	320 lbf x 270 lbf
TEAR STRENGTH	ASTM D-751 8" x 8" Sample	55 lbf	70 lbf x 150 lbf
COLD BRITTLENESS	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% (top coating only)	0.7 %
FACTORY SEAM STRENGTH (membrane failure)	ASTM D-751	66 lbf	Pass
HYDROSTATIC RESISTANCE	ASTM D-751 Method D	Not Established	430 psi
OZONE RESISTANCE	ASTM D -1149	No visible deterioration @ 7 x Magnification	
PUNCTURE RESISTANCE	FTM101C Method 2031	Not Established	380 lbs
PERMEANCE Perms	ASTM E-96	Not Established	0.01
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 .060 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 RPI 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.	25 ft.	65 lbs.
		50 ft.	129 lbs.
		100 ft.	258 lbs.
.060"	5 ft.	100 ft.	161 lbs.
	8 ft.	100 ft.	256 lbs.
	10 ft.	25 ft.	81 lbs.
		50 ft.	161 lbs.
		100 ft.	322 lbs.

Contact RPI representative for product availability and shipping/packaging information.

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.

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