

RPI RE-FLEX FLEECE BACK .060 TPO MEMBRANE

MEMBRANE PHYSICAL PROPERTIES

PROPERTIES	ASTM TEST METHOD	ASTM 6878 MINIMUM	TYPICAL VALUES
NOMINAL THICKNESS	ASTM D-751	0.039 " (min)	0.060"
ELONGATION AT BREAK	ASTM D-751	15 %	30 %
BREAKING STRENGTH	ASTM D-751 Grab Method	220 lbf/inch	400 lbf x 360 lbf
TEAR STRENGTH	ASTM D-751 8" x 8" Sample	55 lbf	70 lbf x 130 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	No visible deterioration @ 7 x Magnification
PUNCTURE RESISTANCE	FTM 101C Method 2031	Not Established	380 lbs
PERMEANCE Perms	ASTM E-96	Not Established	0.08
DIMENSIONAL CHANGE	ASTM D-1204 @158°F, 6 hrs.	±1%	0.4%
REFLECTIVITY	ASTM C-1549	N/A	0.76/0.68
EMISSION	ASTM C-1371	N/A	0.90/0.83
HEAT AGING	ASTM D-573	240° F for 32 weeks	60 weeks
THICKNESS ABOVE SCRIM	ASTM D-7635	Minimum 30% Total Thickness	22.1 Nominal
WEATHER RESISTANCE	ASTM G-155/D-6878	10,080 KJ/(m ² -nm) at 340 nm	>25,000 KJ/(m ² -nm) at 340nm

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. *White Membrane Only. **Energy Star only valid in USA.

APPLICABLE STANDARDS:

Approved for use in UL Class A, B, or C roof constructions. FM Approved , CRRC Listed, Title 24 Compliant*, and ENERGY STAR Qualified**, ASTM D 6878.

DESCRIPTION:

RPI Fleece Back 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.

The addition of a factory applied polyester fleece provides enhanced hail and puncture resistance and White Re-Flex TPO provides the benefits of a white reflective membrane that can be installed with Low Rise Foam, or Water Based Adhesives. Seams and flashings details may be Heat Welded or using traditional RPI Re-Flex Seam Tapes, Flashings and Accessories.

APPLICATION:

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. Refer to RPI Specification Manual for system installation details.

PACKAGING:

Thickness	Widths	Lengths	Weight
.060"	5 ft.	100ft.	185 lbs.
	10 ft.	100ft.	344 lbs.

Contact RPI representative for product availability and shipping/package 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.



See UL Roofing Materials and Systems Directory
R10073

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