

PRODUCT DESCRIPTION

TREMPly TPO RF is a high performance, heat weldable, single side fleece backed thermoplastic polyolefin (TPO) sheet, manufactured and supplied in thickness of 1.2 / 1.5 mm, designed for waterproofing and heat shielding roofs of new and existing buildings.

The sheets are laminated with fleece on one side to provide better adhesion with screed, PCC, RCC and cementitious adhesives for easy and quick application, while imparting high mechanical properties to the membrane ensuring superior puncture resistance, breaking & tearing strength.

BASIC USES

- RCC Roofs (non-accessible)
 - Commercial offices
 - Residential Buildings
 - Industrial buildings
- Green Roofs

FEATURES AND BENEFITS

- Supplied in pre-manufactured standard thickness. No need to worry of thickness variation at site, unlike liquid applied systems.
- Outstanding puncture resistance, high breaking and tearing strength, with very high peel strength of seam joints and heat welds.
- Chlorine free, plasticizer free, phthalate free. Environmentally friendly and safe for humans.
- Exceptional resistance to heat, UV, Ozone bacteria, chemical, acid corrosion.
- Resistance to root penetration, suitable for green roofs.
- Continuous serviceability from -30 ° C to 100 ° C – without cracking, tearing or brittleness failure.
- 100% recyclable.

STORAGE

- Store the membranes in dry and clean conditions and in their original, closed wrapping away from sources of chemical contamination, damage, ignition sources and open flame. Shelf life is beyond 5 years. Exercise caution when lifting, moving, transporting, storage and handling to avoid puncture and physical damage. Store horizontally, not more than one pallet high.

INSTALLATION

- Refer Tremco Installation guideline.

AVAILABILITY

- Contact your Local Tremco Sales Representative.

COVERAGE

- The dimensions of the membrane are calculated to cover the substrate, including seam overlaps.
 - Standard Seams: 75 mm
 - Seams with mechanical anchoring: 150 mm
 - Upstands: additional length of 150 mm

PACKAGING

Thickness (mm)	1.2	1.2	1.5	1.5
Width (mtr)	1.6	2.0	1.6	2.0
Length (mtr)	20	20	20	20

Product Property

TREMPly TPO (Fleece Backed Membrane)

PROPERTY	1.2mm	1.5mm
Nominal Thickness mm; ASTM D751	1.2 ± 10%	1.5 ± 10 %
Typical Weight Kg/m ²	1.18 ± 10%	1.45 ± 10%
Breaking Strength LBF; MD/TD; ASTM D 751 Grab Method	100 Min 125 Typical	110 Min 130 Typical
Elongation at Break %, MD/TD; ASTM D 751	60 Min 80 Typical	60 Min 80 Typical
Tearing Strength LBF; MD/TD; ASTM D 751 Procedure B	25 Min 30 Typical	25 Min 30 Typical
Brittleness Point °C; ASTM D 2137	-40°C	-40°C
Linear Dimensional Change %; 6hrs @ 70°C; ASTM D 1204	< 1%	< 1%
Ozone Resistance 100 pphm, 168 hrs; ASTM D 1149	Pass	Pass
Water Absorption % ; 66 hrs @ 70°C TOP; ASTM D471	< 3.0%	< 3.0%
Factory Seam Strength LBF; ASTM D 751 Grab Method	66 Min 80 Typical	66 Min 80 Typical
Water Vapour Permeance Perms; ASTM E96, Procedure B	0.10 Max	0.10 Max
Puncture Resistance N; ASTM E154	57	70
Properties after Heat Ageing 32weeks @ 115°C; ASTM D 573	Retention	Retention
(i) Breaking Strength (LBF)	90% Min	90% Min
(ii) Elongation Retention (%)	90% Min	90% Min
(iii) Weight change (%)	± 1.0 Max	± 1.0 Max
(iv) Tearing Strength (LBF)	60% Min	60% Min
Weather Resistance KJ/(m ² .mm); ASTM G155	> 21,600	> 21,600
Field Seam Strength LBF; ASTM D 751 Grab Method	40 Min 60 Typical	40 Min 60 Typical
Solar Reflectance Index	100	100
Reflectivity ASTM C1549	0.79	0.79
Emissivity ASTM C1371	0.909	0.909

WARRANTY

- Stoncor Middle East warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Stoncor Middle East makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Stoncor Middle East's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Stoncor Middle East shall not be liable for any loss or damage. Please refer to Stoncor Middle East Warranty guidelines.

• Please contact us at info@stoncor-me.com to confirm the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification & Labelling of Chemicals (GHS) requirements.