

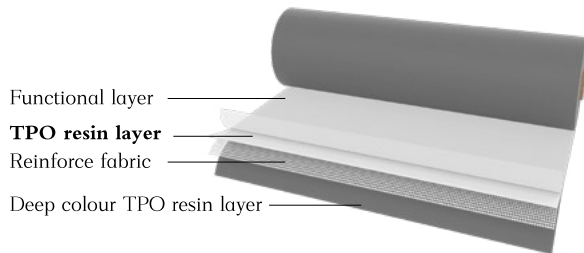


# PMT-3030TPO

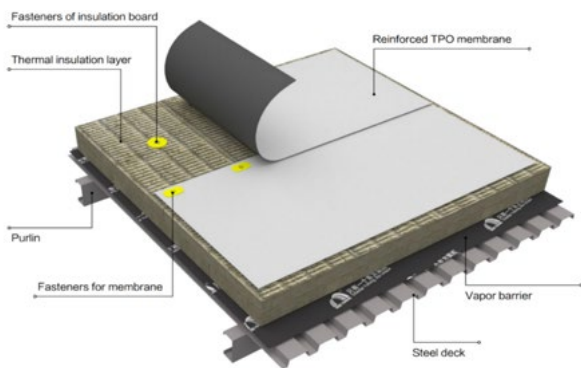
## Thermoplastic Polyolefin (TPO) Waterproofing Membrane

### Product Description

PMT-3030TPO is a thermoplastic polyolefin waterproofing membrane that is made with Lyondell Basell Hifax Series TPO special high-quality resin and a polyester mesh reinforced fabric as the base layer. It is backed with special characteristics such as flame retardant, light shielding & light stabilizer and antioxidant. It has excellent weathering properties, which allows it to be used either as a concealed or exposed system.



### System Structure



Remark: The figure shows the construction method of the Metal base system.

### Features & Benefits

- Hot air welding—Homogenous Joints.
- Excellent Weather Resistance and Durability (No plastizer in TPO that affects service life).
- Excellent Low Temperature Resistance (Membrane flexibility maintained even at  $-40^{\circ}\text{C}$  .
- Chemical and Corrosion Resistance.
- Root Resistance (for green roofing and trees).
- Energy Saving, Environment Friendly, Excellent reflectivity that can reflect most of the sunlight radiation thus reducing energy consumption.
- Variety of colors are available.
- Patented function layer on the surface is not easy to adsorb dust, which is beneficial for maintaining a higher solar reflectivity coefficient.
- FM Certified roofing system.

Remark: FM Global is largest property insurer in the world. Loss is preventable through engineering. Requires the use of FM Approved products to prevent loss.

### Packing and Specifications

Item	Description	
Packaging	Roll	
Product type	Reinforced Polyolefin	
Width (m)	2.0	
Thickness (mm)	1.2, 1.5	1.8, 2.0
Length (m)	25	20
Coverage (m <sup>2</sup> /roll)	50	40

Remarks: Membrane Sizes can be customized.

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## Typical Properties and Characteristic

Description	Test Method	Typical values
Thickness	ASTM-D6878 & D751-19	1.5m
Water Absorption	ASTM D6878 & D471-16A	0.1% (Passed)
Ozone Resistance	ASTM D6878 & D11491-18	No Cracks (Passed)
Factory seam Strength	ASTM D6878 & D751-19	869N (Passed)
Tensile Test	ASTM D6878 & D751-19	(X) 2120N(Passed)
		(Y) 1990N(Passed)
Elongation	ASTM D751	(X) 26% (Passed)
		(Y) 25%(Passed)
Tear Strength	ASTM D6878 & D751-19	(X) 278N (Passed)
		(Y) 370.8N (Passed)
Thickness of coating over fabric or Scrim	ASTM D6878 & D7635	0.68mm (Passed)
Linear Dimensional Change	ASTM D6878 & D1204-14	Within +1% (Passed)
Heat Ageing	ASTM D6878 135°C & 1344hs	No Cracks (Passed)

Remark:

The technical indicators and typical values of 1.5mm products are shown in the table. The above membrane testing results can be provided. For other product performance specifications, please refer to the corresponding product test report.

## Application Method

- Substrate preparation: Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other.
- All roughened surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than 6.3 mm wide shall be properly filled with an acceptable fill material.
- All laps & joints shall be heat welded with a proper hot air hand gun under roller pressure.
- The membrane shall be laid in a predetermined position. It shall be smooth and straight without twisting and crossing.
- The membranes are mechanically attached to the substrate with approved plates and fasteners.
- Detail treatments.
- Termination of membrane can be done by special flashings or as advised by the manufacturer.
- For more information, kindly refer to MSDS submitted by waterproofing applicator.



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## Application Areas

Suitable for mechanically fixed roof and ballasted roof.

## Transportation & Storage

**(get organize in format and layout by designer)**

- Storage at sheltered areas (Temperature shall not be higher than 45°C ), prevent membrane to be in contact with acid, alkali, oil and organic solvents.
- When transporting, prevent tilt position and cover goods if possible.

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## Precautions

- Read the product label and Material Safety Data Sheet (MSDS) before using it. Users should acquaint themselves with all risks & safety phrases.
- Conform to manufacturer' s recommendations, material handling and storage specifications.
- Protect all materials from extreme temperature.
- Store and transport rolls in such a manner to prevent bending of the inner core and membrane edge damages.
- To prevent work interruption, it is important to have all the necessary tools and equipment on the job-site when you begin.

## Product Liability

- The above information and suggestions are based on our experience and are for reference only.
- Since Oriental Yuhong Company and its dealers cannot control the storage and handling conditions after delivery, Oriental Yuhong shall not be liable for any quality issues caused by improper use.
- No technical information shall be provided to any third parties without manufacturer' s consent.

