



PREMIUM ROOFING & WATERPROOFING MEMBRANE

## AWEI TPO GEOTEXTILE BACKED WATERPROOFING SHEET

UV resistant reflective TPO top layer with strong geotextile backing for exposed roofing, heat welding and long-term waterproofing performance.

**1.5 mm**

Nominal Thickness

**1.8 m x 20 m**

Standard Roll Size

**36 m<sup>2</sup>**

Total Roll Area

### KEY FEATURES



Superior Waterproofing



Strong Geotextile Backing



UV & Heat Resistant



Hot-Air Weldable Seams



Long Lasting Performance

#### FELT / GEOTEXTILE BACKING

#### High Grade Virgin Needle-punch Fabric

Enhanced bonding with screed, PCC, RCC, cementitious and compatible adhesives



#### REFLECTIVE TPO TOP LAYER

#### UV Resistant Reflective 100% Pure Virgin TPO

Designed for exposed roofing, low water absorption and heat-welded seams



### TECHNICAL DATA SHEET 1.5 mm

AWEI TPO Geotextile Backed Waterproofing Sheet

#### Product Name

AWEI TPO Geotextile Backed Waterproofing Sheet

#### Surface / Backing

Reflective TPO top with geotextile backing

#### Application

Exposed roofing & waterproofing

#### Mass / Surface Weight

1.25 kg/m<sup>2</sup> ± 10%

#### Approx. Roll Weight

45 kgs (±5%)

Technical Characteristic	Test Standard / Method	AWEI Result / Requirement
Declared Membrane Thickness	ASTM D751	1.5 mm ± 10%
Mass per Unit Area / Surface Weight	ASTM D751 / Internal QC	1.25 kg/m <sup>2</sup> ± 10%
Tensile / Grab Breaking Load, MD/TD	ASTM D751, Grab Method	116 LBF Min / 137 LBF Typical
Elongation at Break, MD/TD	ASTM D751	63% Min / 84% Typical
Tear Resistance, MD/TD	ASTM D751, Procedure B	26.3 LBF Min / 31.5 LBF Typical
Low Temperature Flexibility / Brittleness Point	ASTM D2137	-42°C
Dimensional Stability after Heat Exposure	ASTM D1204, 6 hrs @ 70°C	< 0.5%
Ozone Ageing Resistance	ASTM D1149, 100 pphm, 168 hrs	Pass
Water Absorption after Heat Exposure	ASTM D471, 6 hrs @ 70°C	< 2.85%
Factory Weld / Seam Bond Strength	ASTM D751, Grab Method	69 LBF Min / 84 LBF Typical
Water Vapour Permeance	ASTM E96, Procedure B	0.095 Perms Max
Puncture Resistance	ASTM D751	73.5 LBF
Heat Ageing - Breaking Strength Retention	ASTM D573, 32 weeks @ 115°C	94.5% Min
Heat Ageing - Elongation Retention	ASTM D573, 32 weeks @ 115°C	94.5% Min
Heat Ageing - Weight Variation	ASTM D573, 32 weeks @ 115°C	± 0.95% Max
Heat Ageing - Tear Strength Retention	ASTM D573, 32 weeks @ 115°C	63% Min
Accelerated Weathering Resistance	ASTM G155	> 22,680 kJ/m <sup>2</sup> (nm)
Field Weld / On-Site Seam Strength	ASTM D751, Grab Method	42 LBF Min / 63 LBF Typical
Solar Reflectance Index	ASTM E1980 / Calculated	105
Solar Reflectivity	ASTM C1549	0.83
Thermal Emissivity	ASTM C1371	0.954

Note: Technical values are indicative draft specifications for TDS preparation and should be verified with final laboratory test reports before official certification, tender submission or project approval.

**M/s Ankit Waterproofing Engineers Inc.**

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