

ShaliTPO HG

Thermoplastic Polyolefin – Homogeneous single ply membrane



STP Limited

Description

ShaliTPO HG is a single ply thermoplastic polyolefin, non-reinforced homogeneous roofing membrane with an excellent impermeability to water and moisture, the joints are hot welded to form a continuous water tight seam. **ShaliTPO HG** has also high UV resistance and high solar reflection keeping the roof cool.

Characteristics

Property	ShaliTPO HG (1.2 mm)	ShaliTPO HG (1.5 mm)
Thickness mm; UNI EN 1849-2	1.2 ±10%	1.5 ±10%
Specific Weight kg / m ² ; UNI EN 1849-2	1.23 ±10%	1.45 ±10%
Breaking Strength kg / cm ² ; MD / TD; ASTM D 412	100 Min. 120 Typical	100 Min. 130 Typical
Elongation at Break %; UNI EN 12311-2	550 Min. 650 Typical	600 Min. 730 Typical
Tearing Strength kg / cm; MD / TD; ASTM D 412	45 Min. 55 Typical	45 Min. 55 Typical
Brittleness Point °C; ASTM D 2137	Pass	Pass
Linear Dimensional Change %; 6 hrs. @ 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 D 471	< 2.0%	< 2.0%
Factory Seam Strength LBF; ASTM D 751 Grab Method	55 Min. 70 Typical	55 Min. 70 Typical
Water Vapour Permeance Perms; ASTM E96, Procedure B	0.10 Max	0.10 Max
Puncture Resistance LBF; ASTM D 751	50	66
Weather Resistance kJ / (m ² .mm); ASTM G155	> 21,600	> 21,600
Solar Reflectance Index	100	100
Reflectivity ASTM C1549	0.79	0.79
Emissivity ASTM C1371	0.909	0.909

Features & Benefits

- Supplied in pre-manufactured standard thickness.
- 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 and below ground applications.
- Continuous serviceability from -30°C to 100°C, without cracking, tearing or brittleness failure.

Application

For Waterproofing on Metal, Wooden and RCC terraces of any shape.

Advantages

- Easy to handle and install
- Easily repairable
- Excellent Impermeability to water ingress
- Efficient hot air welded seam
- UV Resistance
- Cool Roof due to high solar reflection

Application Methodology

- Remove all loose gravels, dirt, oil, grease and other foreign particles by jet or dry air and clean the surface mechanically or by grinding to make it smooth before application.
- PCC / cementitious coving of 75 mm radius shall be provided at all junction between vertical and horizontal faces.
- Lay **ShaliGeoText 300** GSM loosely as a base layer with an overlap of 50 mm.
- Lay **ShaliTPO HG** of desired thickness and fix it mechanically with anchor of suitable size and adequate number depending on the air velocity in the respective areas.
- Provide overlap joints of 75 mm to 125 mm in both longitudinal depending upon fixing longitudinal and transverse direction of the **ShaliTPO HG** and sealed properly with hot air welding only.
- Terminate **ShaliTPO HG** at the top of parapet wall with termination strip and fix it by screw at 300 mm c/c.
- All termination strip shall be sealed with water lock sealant a back and **ShaliSeal PU GG** on top.

Health & Safety

- Use hand gloves and goggles during application.
- Clean hand with soap water after application.

Packing

2 m width x 20 m length; Membrane thickness - 1.2 mm & 1.5 mm

Storage

Store rolls horizontally on pallets or shelving in a dry area under shed at ambient temperature and away from source of ignition.



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