

## Polymat TUNNEL

**Polymat TUNNEL** is a Polymeric PVC-P waterproofing membrane with high tensile strengths & elongation, complies with the European harmonized Standard **EN 13491**

### Description

**Polymat TUNNEL** is a polymeric membrane made from a long - term proven PVC-P compound (Polyvinyl chloride compound with plasticizer) in a most modern Co-Extrusion process. The product may be either reinforced by a Polyester scrim for absorbing high tensile strengths and ensuring dimensional stability or non-reinforced membranes where additional elongation is required

### Typical Application

**Polymat TUNNEL** as a single-ply membrane that can be used for tunnels

### Advantage

- High mechanical and thermal resistance
- High resistance to weathering & ageing
- High resistance to puncturing
- High resistance to hot- cold temperature cycle.
- Resistant to wash out actions.
- Resistant to hydrostatic pressure.
- Resistant to root penetration

### Installation

**Polymat TUNNEL** is seam welded with hot air automatic and hand-held machines by trained applicators. **Polymat TUNNEL** can be mechanically fastened. For detailed solutions and the best application methods for all designs, consult the application specialists of BITUMAT or BITUMAT distributors for field assistance.

BITUMAT provides system membranes for all waterproofing requirements, to guarantee the best and most proven solution for all constructions, buildings and civil engineering projects.

### Packaging - Roll Size

Thickness, mm	1.5	1.8	2	2.4
Width, m	2.1	2.1	2.1	2.1
Length, m	20	15	15	15
Colour	Yellow - Top Layer			
	Black - Bottom Layer			



## Polymat TUNNEL

### Technical features

Properties	Test Method	Unit	Tolerance	Available Thickness			
Thickness	EN 1849-2	mm	± 5%	1.5	1.8	2	2.4
Specific weight	EN 1849-2	kg/m <sup>2</sup>	± 5%	2.025	2.430	2.7	3.240
Tensile strength	EN ISO 527	N/mm <sup>2</sup>	Min.	17	17	17	17
Transversal							
Longitudinal				17	17	17	17
Elongation at break	EN ISO 527	%	± 5%	310	310	310	310
Longitudinal							
Transverse				310	310	310	310
Dynamic puncture resistance	DIN 16726-5	mm	Min.	1000	1100	1200	1300
Low temperature bend	EN 495-5	°C	Min.	- 30 Pass	- 30 Pass	- 30 Pass	- 30 Pass
Hydrostatic pressure resistance (6hrs. @ 5 bar)	EN 1928 Method-B	-	-	Pass	Pass	Pass	Pass
Tear resistance	ISO 34-Fig-2	N/mm	Min.	50	50	50	50
Resistance to static puncturing (CBR)	EN ISO 12236	N	Min.	1800	2200	2400	2600
Resistance to oxidation, Tensile strength variation	EN 14575	%	Max.	25	25	25	25
Root resistance	CEN TS 14416	N/A	N/A	No Penetration	No Penetration	No Penetration	No Penetration

The information given in this publication reflects typical median properties based on laboratory test and practical experience; subject to the tolerance levels as declared. However, as the product is often used under conditions beyond our control, we can't warrant but the product itself. It is the responsibility of the user to choose the suitable product for the intended application



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