

TERANAP 531 TP 4 m

PRODUCT DESCRIPTION AND USES

TERANAP 531 TP is a large width geomembrane made of SBS modified bitumen for environmental protection (tailing, industrial waste containment ponds, industrial waste water basins ...) and hydraulic applications (dams, canals, irrigation works...).

It is manufactured with a special blend and a special reinforcement that provide waterproofing, chemical resistance, ageing behaviour and resistance to high mechanical stresses.

This allows the membrane to have superior physical properties (see characteristics table).

COMPOSITION

Surface	Sand
Reinforcement	Nonwoven polyester + 50 g glass mat
Compound	SBS elastomer bitumen
Under face	Fusible film

DIMENSIONAL CHARACTERISTICS


	65 m		75 m	
	Average value	Critical Value	Average value	Critical Value
Thickness (mm)	4.80	4.60	4.80	4.60
Length (m)	65.0	64.4	75.0	74.3
Width (mm)	3960	3960	3960	3960
Area density (kg/m ²)	5.410	5.140	5.410	5.168
Mass of a roll (kg)	1525	1449	1750	1657

PERFORMANCES

Test	Standard	Unit	Average value	Critical value
Tensile strength	EN 12311-1	N/5 cm	1550 x 1200	1250 x 1140
	ASTM D 7275	kN/m	30 x 27	25.5 x 23.0
Elongation	EN 12311-1	%	60 x 70	50 x 60
	ASTM D 7275	%	65 x 70	55 x 60
Cold temperature flexibility	EN 1109	°C	-20	-15
	ASTM D 5147	°C	-25	-20
Tearing resistance	ASTM D 5884	N	140 x 130	120 x 115
	ASTM D 4073	N	1090 x 880	1000 x 750
Static puncture resistance	EN 12236	kN	4.0	3.7
	ASTM D 4833	N	620	560
Watertightness	ASTME 96	m/s	> 2E-14	> 2E-14
Gas tightness	ASTM D 1434	m ³ /(m ² .j)	27.6E-6	27.6E-6

➤ Ageing: strong and weather resistant

ISO 9001 REFERENCE DOCUMENT

<p>Our products are manufactured by certified ISO 9001 plants</p>	
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PACKAGING

- Products are rolled up with a plastic intercalated film.
- Each roll wears a data sheet indicating the trademark, the product name and the serial number .
- Rolls are piled up (prismatic volume) during transport.
- Rolls are equipped with metallic mandrels of 4.8 m long and internal diameter of 159 ± 0.5 mm.
- TERANAP 531 TP is not classified as dangerous according to the international regulation of transport.

GENERALITIES ABOUT APPLICATION

- Due to the flexibility (viscoelastic behaviour) of SBS modified bitumen, TERANAP 531 TP will easily take the shape of the soil profile.
- Its low thermal expansion coefficient allows keeping TERANAP 531 TP flattened on the soil profile.
- Manual torching with gas burner.
- Easy to anchor and connect.
- Can be installed at low temperature ($T > 1^{\circ}\text{C}$).

Using	The generalities about the product using are set out in the ZSA STANDARD
Application	The generalities about the product application are set out in the ZTA STANDARD
Overlaps	Current building practices concerning overlaps are set out in the ZRA STANDARD
Slopes	Current building practices concerning slopes are set out in the ZPA STANDARD

COMPLEMENTARY INFORMATIONS

Values	Where 2 values for given characteristics are shown, the first is for longitudinal direction and the second is for the cross direction.
Tolerances	The average values derived from standard tests and are subject to the usual production variations. Some slight variations can be noticed as the values are based on the average values obtained from several plants.
Modification(s)	Our company reserves the right to modify its composition as a result of technologic and experiments improvements. This product data sheet supersedes the previous edition, to obtain the up-date technical data sheet, please contact our technical department
Hazardous classification	It is not classified as dangerous according to the international regulation (ADR, RID, IATA, and RTMDR)
Complementary information	This document is only a product technical data sheet, regarding each waterproofing design, please, consult the concerned technical agreement and in case of doubt contact our technical department.
Storage	This product is packaged in rolls set up vertically on pallet or wooden box. It must be stored vertically under shelter, away from heat sources.