

Product Technical Information
ITA/ATEXP/613/ASTM
Rev 0 – 17/12/15

TERANAP 531 TP 4M

Elastomeric bitumen geomembrane

DESCRIPTION

TERANAP 531 TP is a large width geomembrane made of SBS modified bitumen for environmental protection (Tailing, Industrial waste containment ...) and hydraulic applications. 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).

ADVANTAGES

High mechanical properties.

- Tensile strength
- Resistance to static puncturing.

Chemical resistance.

Easy to install and repair.

- Due to the flexibility (visco elastic 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 ($T > 1^{\circ}\text{C}$).

Ageing

- Strong and weather resistant.



SCOPE OF APPLICATION

- Environmental protection sites :
 - ⇒ Tailings, Industrial waste containment ponds, Industrial waste water basins, ...
- Hydraulic works :
 - ⇒ Dams, Canals, Irrigation works, ...

DESCRIPTION

Surface	Sand
Reinforcement	Nonwoven polyester + glass mat 50g
Compound	SBS elastomeric bitumen
Under face	Anti roots plastic film

DIMENSIONAL CHARACTERISTICS

	Nominal value	Critical value
Length (m)	65	64.4
Width (m)	4	3.96
Weight/m ² (kg)	5.41	5.14
Thickness (mm)	4.8	4.6

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CHARACTERISTICS

	Norm	Unit	Nominal values	Critical values
Tensile strength at break	ASTM D 7275	kN/m	30 x 27	25.5 x 23
Elongation at break	ASTM D 7275	%	65 x 70	55 x 59.5
Static puncture resistance	ASTM D 4833	N	655	555
Tearing strength resistance	ASTM D 5884	N	135 x 130	115 x 110
Tensile tear resistance	ASTM D 4073	N	1090 x 860	926 x 731
Cold temperature flexibility	ASTM D 5147	°C	-25	-20
Water permeability	ASTM E 96	m/s	$> 2.10^{-14}$	
Gas permeability	ASTM D 1434	m ³ /m ² /day	$2,76 \times 10^{-5}$	

PACKAGING

	Length	Width	Nominal weight/roll	Roll diameter
TERANAP 531 TP - 4 m	65 m	4 m	1500 kg	700 mm

- 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 mm (+/- 0.5).
- **TERANAP 531 TP** is not classified as dangerous according to the international regulation of transport.

Our company reserves the right to modify products composition as a result of technologic improvements. This product data sheet supersedes the previous edition. To obtain the updated technical data sheet, please contact our technical department.

This product is not classified as dangerous according to the international regulation (ADR, RID, IATA, RTMDR).

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