

**PRODUCT TECHNICAL INFORMATION**

ITA/AATEXP/331  
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**TERANAP 331 TP - 2 m wide**  
**Elastomeric bitumen geomembrane**



**DESCRIPTION**

**TERANAP 331 TP** is a manufactured waterproofing geomembrane with SBS elastomeric bitumen and reinforced with a non-woven polyester textile. The membrane presents a filmed face and a sanded face. A pull-off release strip protects the overlap areas.

**CARACTERISTICS**

	Unit	Standard	TERANAP 331 TP - 2m
			Average value
Thickness	mm	NF EN 1849-1	3
Longitudinal overlap width	mm	NF EN 1848-1	150
Mass per unit area	g/m <sup>2</sup>	NF EN 1849-1	3760
Strength at break (MD x CMD) <sup>1</sup>	N/5cm	NF EN 12311-1	950 x 650
Elongation at break	%		40 x 49
Static puncture:		NF EN ISO 12236	
- Force	kN		2.56
- Displacement	mm	48	
Cold temperature flexibility	°C	NF EN 1109	- 20
Flow resistance (100 °C, 2h)	mm	NF EN 1110	100
Dimensional stability	%	NF EN 1107-1	-0,5
Water tightness	m <sup>3</sup> /m <sup>2</sup> /j	EN 14150	1 x 10 <sup>-7</sup>
Gas tightness	m <sup>3</sup> /m <sup>2</sup> /j	ASTM D 1434	2,76 x 10 <sup>-6</sup>
Resistance to oxidation		NF EN 14575	Very Good
Resistance to weathering <sup>2</sup>		NF EN 12224	No loss in properties

<sup>1</sup> MD: Machine Direction; CMD: Cross Direction

<sup>2</sup> Test-conditions: 5 hours UV cycle at 50 °C followed by 1 hour condensation at 20 °C; Total: 3000 hours.

**PACKAGING**

	Length	Width	Nominal weight/roll	Roll diameter	Rolls number/ truck pallet	Weight/truck pallet
<b>TERANAP 331 TP - 2 m</b>	20 m	2 m	160 kg	320 mm	6	972 kg
	100 m	2 m	800 kg	638 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.
- For handling and storage facilities, rolls are equipped with mandrels. For 20 m long products: cardboard mandrels of 2 m long and internal diameter of 70 mm (+/- 0.5). For 100 m long products: metallic mandrels of 2.3 m long and internal diameter of 159 mm (+/- 0.5).
- This product is not classified as dangerous according to the international regulation of transport.

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### NOTE

- 1) Where 2 values for given characteristics are shown, the first is for the longitudinal direction and the second is for the cross direction.
- 2) Average values comply to UEAtc standard project (prEN WI 002254041). The manufacturing tolerances comply to UEAtc standards.
- 3) The information about purpose and methods of application of the product does not prevail against local regulations and practices. In case of doubt, do not hesitate to contact the Siplast's Technical Department.
- 4) Siplast reserves the right to change its composition as a result of technical and experimental improvements. This product data sheet supersedes any previous edition, to obtain the up-dated technical data sheet, please contact the Siplast's Technical Department.
- 5) This document is only a product technical data sheet. For each waterproofing design, please, consult the related technical agreement and in case of doubt contact the Siplast's Technical Department.

*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).*