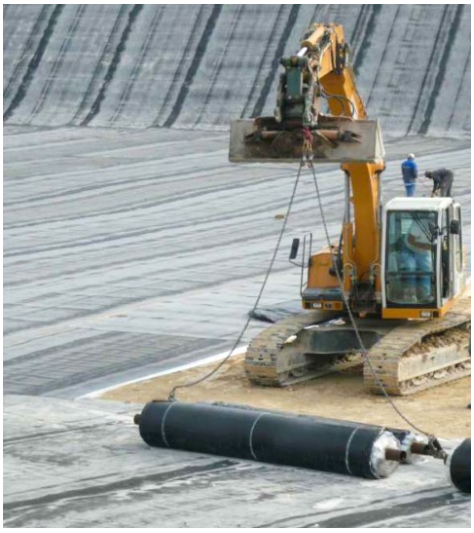

TERANAP® 331 2M

Commercial Product Data Sheet

Teranap 331 2M is a high performance modified bitumen geomembrane waterproofing ply designed for use in geotechnical applications requiring additional subgrade protection or direct concrete placement. Teranap 331 2M consists of a nonwoven polyester mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen.

Contact Siplast for information on approved product uses.

USES:
BITUMINUOUS GEOMEMBRANE

Roll Length	Min: 65.6 ft (20.0 m)
Roll Width	Avg: 6.6 ft (2.0 m)
Coverage	430 sq ft (40 m²)
Coverage Weight per Square Foot	Min: 0.74 lb (4.0 kg/m²)
Selvage Surfacing	Removable Kraft Paper
Top Surfacing	Silica Parting Agent
Back Surfacing	Polyester Film – Anti Piercing

PRODUCT INFORMATION

Application

Refer to the applicable Siplast Technical Guide for detailed application information and slope limitations. Teranap 331 2M is lapped 6 inches (152 mm) side and end.

Storage and Handling

All Siplast 2 meter geomembrane products should be stored on end on a clean, flat surface. Rolls should not be dropped on ends or edges or stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All products should be stored in a dry place out of direct exposure to the elements and should not be double stacked. Material should be handled so that it remains dry prior to and during installation.

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Packaging

Crate: 48 in x 48 in x 48 in (122 cm x 122 cm x 122 cm) open-topped wooden crate
Rolls Per Container: 90
Shipping Weight Per Roll: 352 lb (160 kg)

Siplast 14911 Quorum Dr., Suite 600 Dallas, TX 75254
201 Bewicke Ave., Suite 208 North Vancouver, BC, Canada V7M 3M7
Customer Service in North America 1.800.922.8800 www.siplast.com

TERANAP® 331 2M
Physical and Mechanical Properties

siplast® With you every step of the way

TEST STANDARDS

Property (as Manufactured)	Values / Units	Test Method
Thickness (minimum)	130 mils (3.3 mm)	ASTM D5147 Section 6
Thickness (average)	142 mils (3.6 mm)	ASTM D5147 Section 6
*Peak Load @ 73ºF (23ºC) (average)	60 lbf/in (10.5 kN/m)	ASTM D5147 Section 7
*Elongation @ Peak Load 73ºF (23ºC) (average)	45%	ASTM D5147 Section 7
*Ultimate Elongation (average)	100%	ASTM D5147 Section 7
*Elongation %	45% x 48%	ASTM D7275
Tensile Strength	23 x 20 kN/m	ASTM D7275
*Tear Strength (average)	100 lbf (0.45 kN)	ASTM D5147 Section 8
Water Absorption (maximum)	1%	ASTM D5147 Section 10
Dimensional Stability (maximum)	0.5%	ASTM D5147 Section 11
Low Temperature Flexibility (maximum)	-15ºF (-26ºC)	ASTM D5147 Section 12
High Temperature Flexibility (minimum)	225°F (107°C)	ASTM D5147 Section 16
Resistance to Hydrostatic Pressure	7 bar	CEMAGREF Test
Gas Tightness	27.6E-6 $M^3/(M^2/.j)$	ASTM D1434
Water Permeability	$> 2.10^{-14}$ m/s	ASTM E96

*The value reported is the lower of either MD or XD.

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