

TERANAP 1M GS



Commercial Product Data Sheet

Product Description

Teranap 1M GS is a high performance modified bitumen waterproofing ply designed for use in homogeneous multi-layer modified bitumen plaza deck waterproofing membrane systems. Teranap 1M GS consists of a nonwoven polyester mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The surface of the sheet is protected by ceramic granules.

Product Uses

Teranap 1M GS is the surface sheet in multi-layer plaza deck waterproofing systems, and is lapped 4 inches (10.2 cm) side and end. Teranap 1M GS is torch applied to approved substrates. Contact Siplast for specific approval on other product uses.

Product Approvals

Teranap ballasted roof systems are approved by FM Approvals for use over insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Teranap 1 M GS meets or exceeds the requirements of ASTM D 6162 Type II, Grade S and CSA A123.23-15 Type C, Grade 1 for SBS-modified bituminous sheet materials using a polyester reinforcement.

Teranap ballasted roof systems have been classified by Underwriters Laboratories as Class A roofing systems over insulated and non-insulated non-combustible roof decks.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

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COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	0.75 Square	(7.0 m ²)	
Coverage Weight Per Square:	Min:	141 lb	(6.9 kg/m ²)
Roll Length:	Min:	26 ft	(7.92 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:	Avg:	180 mils	(4.6 mm)
Thickness at Selvage:	Avg:	157 mils	(4.0 mm)
	Min:	154 mils	(3.9 mm)
Selvage Width:	Avg:	3.75 in	(95 mm)

Selvage Surfacing: Silica Parting Agent

Top Surfacing: No. 11 ceramic granules, standard color finish is #A-720 Bone White.

Back Surfacing: Silica Parting Agent

Lines: A laying line is placed 4 in (10.2 cm) from selvage edge of the material. The line color for this material is blue.

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright on ends opposite the selvage on pallets cushioned with corrugated cardboard and are adhered with adhesive at the labels. The top of the palletted rolls is covered with Kraft paper. The palletted material is protected by a heat shrink polyethylene shroud.

Pallet: 41 in X 48 in (104 cm X 122 cm) wooden pallet
Number Rolls Per Pallet: 20
Number Pallets Per Truckload: 18
Minimum Roll Weight: 106 lb (48.1 kg)

Storage and Handling: All Siplast roll roofing products should be stored on end on a clean flat surface. Care should be taken that rolls are not dropped on ends or edges and are not stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing should be stored in a dry place, out of direct exposure to the elements, and should not be double stacked. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

TERANAP 1 M GS

Physical and Mechanical Properties

UNITED STATES TEST STANDARDS			CANADA TEST STANDARDS	
Property (as Manufactured)	Values/Units	Test Method	Property (as manufactured)	Test Method CSA A123.23-15 Values/Units
Thickness (minimum)	180 mils (4.6 mm)	ASTM D 5147 section 5	Thickness (minimum)	4.6 mm (180 mils)
¹ Thickness at selvage (minimum) (average)	154 mils (3.9 mm) 157 mils (4.0 mm)	ASTM D 5147 section 5	¹ Thickness at selvage (minimum) (average)	3.9 mm (154 mils) 4.0 mm (157 mils)
¹ Peak Load @ 73°F (23°C) (average)	80 lbf/inch (14.0 kN/m)	ASTM D 5147 section 6	¹ Peak Load 23°C (73°F) (average)	14.0 kN/m (80 lbf/inch)
¹ Peak Load @ 0°F (-17°C) (average)	115 lbf/inch (20.1 kN/m)	ASTM D 5147 section 6	¹ Peak Load @ -17°C (0°F) (average)	20.1 kN/m (115 lbf/inch)
¹ Elongation @ Peak Load, 73°F (23°C) (average)	40%	ASTM D 5147 section 6	¹ Elongation @ Peak Load, 23°C (73°F) (average)	40%
¹ Elongation @ Peak Load, 0°F (-17°C) (average)	40%	ASTM D 5147 section 6	¹ Elongation @ Peak Load, -17°C (0°F) (average)	40%
¹ Ultimate Elongation @ 73°F (23°C) (average)	100%	ASTM D 5147 section 6	¹ Ultimate Elongation @ 23°C (73°F) (average)	100%
¹ Tear Strength (average)	100 lbf (0.45 kN)	ASTM D 5147 section 7	Strain Energy (before and after conditioning) @ 23°C (73°F) @ -18°C (0°F)	≥ 5.5 kN/m (≥ 31 lbf/in) ≥ 3.0 kN/m (≥ 17 lbf/in)
Water Absorption (maximum)	1%	ASTM D 5147 section 9	N/A	NA
Dimensional Stability (maximum)	0.5%	ASTM D 5147 section 10	Dimensional Stability (maximum)	0.5%
Low Temperature Flexibility (maximum)	-5°F (-21°C)	ASTM D 5147 section 11	Low Temperature Flexibility (maximum)	-21°C (-5°F)
Granule Embedment Max. avg. loss Max. individual loss	1.5 grams per sample 2.0 grams per sample	ASTM D 5147 section 14	Granule Embedment Max. avg. loss Max. individual loss	1.5 grams per sample 2.0 grams per sample
High Temperature Stability (minimum)	250°F (121°C)	ASTM D 5147 section 15	High Temperature Stability (minimum)	121°C (250°)
Cyclic Fatigue	Teranap 1M GS utilized as a single-layer membrane, or bonded to an acceptable Terabase or Paradiene 20 base ply with an approved method of attachment, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D5147.		Mass Per Unit Area Minimum	6.9 kg/m ² (141 lb/sq)

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