



SYNTEC Product Specification:



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LandShield TRM 100 is a polyethylene erosion control geo-mats, designed for protection and growing of grass on slopes subject to surface erosion. LandShield TRM 100 is a three dimensional mat composed by extruded and bi-oriented polypropylene grids, laid one upon each other and tied up by means of black polypropylene yarns. The three dimensional structure of the mat shelters the layer of soil and anchors the growing roots of the planted seeds to obtain one block of very resistant to rain drop run off and soil movement. LandShield TRM 100 can be easily installed.

Primary Applications: Roadway Ditches, Slope Protection, Storm and Irrigation Channels, Shorlines, Landfill Covers

SYNTEC reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

Physical Characteristics	Units	Data ¹	
▪ Thickness ²	in (mm)	0.67 (17)	
▪ Mass/Unit Area ³	oz/yd ² (g/m ²)	9.4 (320)	
▪ UV Stability ⁴	% Strength Retained	90	
Mechanical Properties ⁵		MD Values ¹	XMD Values ¹
▪ Tensile Strength	lbs/ft (kN/m)	685 (10)	1,027 (15)
Performance Properties ⁶			
Permissible Velocity			
▪ Product Only	ft/s (m/s)	13 (4.0)	
▪ 30 minute, vegetated	ft/s (m/s)	18 (5.5)	
▪ 60 minute, vegetated	ft/s (m/s)	11 (3.35)	
Permissible Shear Stress			
▪ Product Only	ft/s (m/s)	6 (0.29)	
▪ 30 minute, vegetated	ft/s (m/s)	10 (0.475)	
▪ 60 minute, vegetated	ft/s (m/s)	6 (0.29)	
Dimensions and Delivery			

The three dimensional TRM mat shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 7.2 feet (2.2meters) in width and 100 feet (30.5 meters) in length. Rolls weigh 53 lbs (24kg).

MD= Machine Direction; XMD=Cross Machine Direction

Notes:

1. Values above are typical values
2. Thickness measured via ASTM D 5199
3. Mass/Unit Area measured via ASTM D 5261
4. UV Stability measured via ASTM D 4355
5. Breakage strength and strain are measured via ASTM D 4595, modified with a strain rate of 2 inch / minute.
6. Values determined by flume test, independent laboratory-data and details available upon request

LandShield TRM 100 meets requirements of FHWA FP-03 TRM categories Types 5.A, B and C.