Mirafi



Miramesh® Biaxial Geosynthetics for Green Permanent MSE Wall and Slope Applications

TenCate develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

TenCate Miramesh® geosynthetics provide surface erosion protection and secondary reinforcement in MSE structures. The erosion protection facilitates establishment of vegetation and provides structural support for the forming of battered and vertical face MSE walls and oversteepened slopes. The secondary reinforcement facilitates compaction and prevents surficial sloughing at the slope face.

The Difference Miramesh® Biaxial Geosynthetics Make:

- Strength. Biaxial strength to provide uniform design strengths and facilitate one layer installation for secondary reinforcement and face erosion protection.
- Vegetation Support. Vegetation testing shows Miramesh[®] geosynthetics perform better than biaxial geogrids and geotextiles in providing a suitable platform for plant growth. The uniquely designed aperture construction allows for retention of soil particles, while encouraging vegetation growth.
- Flexible. Easily conforms to the slope or wall face to provide a stable platform vegetation.
- Color. Available in green and black color.

• Design Life. Available in 75 to 100 year permanent design life exposed to sunlight.

Miramesh® GR: The original Miramesh® geosynthetic. Miramesh® GR is a green mesh facing to provide an instant green face prior to vegetation growth. It is UV coated to provide 75 to 100 year design life for permanent MSE wall face and slope face.

Miramesh® TR: A black mesh facing offering high biaxial tensile strengths with standard UV protection offering economical facing before vegetation growth. Miramesh® TR may act as a temporary or permanent face wrap based on the MSE structure type.

Miramesh[®] has been used successfully on MSE walls and slopes providing an alternative facing to hard armor concrete and masonry block facing. Miramesh[®] may also be used under permeable pavers and channel blocks as a separation layer below the units or to separate dissimilar aggregate layers. The unique benefits of Miramesh[®] geosynthetics allow it to be used in many civil engineering applications based on the project needs.

Please contact your TenCate representative for more detailed information.





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Property	Test Method	Units (Patent #7,740,420)	GR	TR	
Mechanical Properties (Minimum Average Roll Values)					
Tensile Strength MD@ Ultimate CD@ Ultimate	ASTM D4595	lbs/ft (kN/m) lbs/ft (kN/m)	1440 (21.0) 1733 (25.3)	2100 (30.6) 2100 (30.6)	
Creep Reduced Strength MD CD	ASTM D5262	lbs/ft (kN/m) lbs/ft (kN/m)	471 (6.9) 566 (8.3)	686 (10.0) 	
Long Term Allowable Design Load ¹ MD CD	GRI GT-7	lbs/ft (kN/m) lbs/ft (kN/m)	407 (5.9) 490 (7.2)	594 (8.7)	
Aperture Size MD CD Color	-	in (mm) in (mm) -	0.08 (2) 0.08 (2) Green	0.08 (2) 0.12 (3) Black	
Flame Resistance NFPA-7	701 California State Fire	Marshall			
UV KESISTANCE (AT 500 NOURS) [®]	ASTM D4355	% Strength Retained	100	90	
Design Life 	See Note Delow	years	75 CB	 TD	
Roll Width		ft (m)	8.0 (2.4)	8.0 (2.4)	
Roll Length		ft (m)	150 (45.7)	150 (45.7)	
Roll Weight (Typical)		lbs (kg)	51 (23)	52 (24)	
Roll Area		yd² (m²)	133 (110)	133 (110)	
Note ¹ : Long Term Allowable Design values are for sand, slit, and clay. Creep Reduc- tion Factor based on 75-year design life. Note ² : Extrapolated from the average half-life based on ASTM D7238 (QUV). Data also found on Mirafi [®] UV Durability Technical Note. <i>Miramesh "SG Notes:</i> Note ¹ : Miramesh physical properties do not apply to tufted area. Miramesh [®] Biaxial Geosynthetics		0.45 m (1.5 ft)	ft)	Note ² . Long Term Allowal Note ³ . UV Resistance is fn Note ⁴ . Extrapolated from nical Note. Note ⁵ . Aperture size only Note ⁶ . Weight is for comp	ble Design values are for sand, slit, and clay. Creep Reduction Factor based on 75-year design 1 or tufted area only. the average half-life based on ASTM D7238 (QUV). Data also found on Mirafi [®] UV Durability T applies to untufted area. posite of tufed and untufed area.
Backet	- Wire Mesh	0.45 m (Wire Mesh Geosynthetic Reinforcement	I.5 ft) Basket	Mranesh and a second seco	Miramesh Geosynthetic Reinforcement Anno Miramesh Geosynthetic Reinforcement

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