



Miramesh[®] GR

Miramesh[®] GR is composed of green high-tenacity monofilament polypropylene yarns that are woven together to produce an open mesh geotextile. Miramesh[®] GR is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

Miramesh Facing Geogrids are used as secondary reinforcement for surficial stability to promote vegetation growth in MSE structures such as; geosynthetic wrapped faced walls, wire faced walls and steepened slopes. Miramesh is also used as a separation screen layer under permeable pavers and stream channel blocks.

Minimum Average Roll Values (MARV) shown below are based on QC Testing per a defined lot not to exceed 12 months. Testing Frequency follows ASTM D4354, Table 1. (move to table)

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	1440 (21.0)	1733 (25.3)
			Minimum Value	
Creep Reduced Strength	ASTM D5262	lbs/ft (kN/m)	471 (6.9)	566 (8.3)
Long Term Allowable Design Load ¹	GRI GT-7	lbs/ft (kN/m)	407 (5.9)	490 (7.2)
			Typical Value	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	100	
UV Resistance (at 2000 hours)			97	
UV Resistance (at 5000 hours)			90	
Mass/Unit Area	ASTM D5261	oz/yd ² (g/m ²)	5.8 (196.6)	
			Minimum Test Value	
Design Life	See Note ²	Years	75	

¹ Long Term Allowable Design values are for sand, silt and clay. Creep Reduction Factor based on 75-year design life.

² Extrapolated from the average half-life based on ASTM D7238 (QUV). Data also found in the Mirafi[®] UV Durability Technical Note.

Physical Properties	Unit	Roll Characteristic
Color	--	Green
Aperture Size (machine direction)	in (mm)	0.08 (2)
Aperture Size (cross machine direction)	in (mm)	0.08 (2)
Roll Dimensions (width x length)	ft (m)	8 x 150 (2.4 x 45.7)
Roll Area	yd ² (m ²)	133 (110)
Estimated Roll Weight	lbs (kg)	51 (23)

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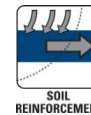
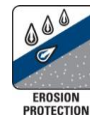
365 South Holland Drive
Pendergrass, GA 30567
FGS000084
ETQR23

Tel 706 693 2226
Tel 888 795 0808

Fax 706 693 4400
www.tencate.com



Miramesh[®] FR



Miramesh[®] FR is composed of black flame retardant high-tenacity monofilament polypropylene yarns that are woven together to produce an open mesh geotextile. Miramesh[®] FR is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids. Miramesh[®] FR passes testing done by Diversified Labs per NFPA standards.

TenCate Geosynthetics Americas Laboratories are accredited by Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP).

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	1440 (21.0)	1733 (25.3)
			Minimum Value	
Creep Reduced Strength	ASTM D5262	lbs/ft (kN/m)	471 (6.9)	566 (8.3)
Long Term Allowable Design Load ¹	GRI GT-7	lbs/ft (kN/m)	407 (5.9)	490 (7.2)
			Minimum Test Value	
Flame Resistance	NFPA-701	---	Pass	
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	
Design Life	See Note ²	Years	75	

¹ Long Term Allowable Design values are for sand, silt and clay. Creep Reduction Factor based on 75-year design life.

² Extrapolated from the average half-life based on ASTM D7238 (QUV). Data also found on Mirafi[®] UV Durability Technical Note.

Physical Properties	Unit	Roll Characteristic
Aperture Size (machine direction)	in (mm)	0.08 (2)
Aperture Size (cross machine direction)	in (mm)	0.08 (2)
Color	--	Black
Mass/Unit Area (ASTM D5261)	oz/yd ² (g/m ²)	5.8 (196.6)
Roll Dimensions (width x length)	ft (m)	8 x 150 (2.4 x 45.7)
Roll Area	yd ² (m ²)	133 (110)
Estimated Roll Weight	lbs (kg)	51 (23)

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Miramesh[®] TR

Miramesh[®] TR is composed of black high-tenacity polypropylene yarns that are woven together to produce an open mesh geotextile. Miramesh[®] TR is inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Tensile Strength (at ultimate)	ASTM D4595	lbs/ft (kN/m)	2100 (30.6)	2100 (30.6)
UV Resistance (at 500 hours)	ASTM D4355	% strength retained	90	

Mechanical Properties	Test Method	Unit	Minimum Value
			MD
Creep Reduced Strength ¹	ASTM D5262	lbs/ft (kN/m)	686 (10.0)
Allowable Design Strength ¹	GRI GT-7	lbs/ft (kN/m)	594 (8.7)

¹ Allowable Design Strength values are for sand, silt and clay. Creep Reduction Factor based on 75-year design life.

Physical Properties	Unit	Roll Characteristic
Aperture Size (machine direction)	in (mm)	0.08 (2)
Aperture Size (cross machine direction)	in (mm)	0.12 (3)
Color	--	Black
Mass/Unit Area (ASTM D5261)	oz/yd ² (g/m ²)	5.9 (200)
Roll Dimensions (width x length)	ft (m)	8 x 150 (2.4 x 45.7)
Roll Area	yd ² (m ²)	133 (110)
Estimated Roll Weight	lbs (kg)	52 (24)

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