



REED & GRAHAM INC.

# GEOSYNTHETICS

## RG315W Woven Geotextile Technical Data Sheet

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Reed & Graham's RG315W is composed of high-tenacity polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. RG315W is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

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Mechanical Properties	Test Method	Unit	Minimum Average Roll Value
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	12
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.503 (113)
Mullen Burst Strength	ASTM D 3786	kPa(psi)	4134 (600)
Puncture Strength <sup>1</sup>	ASTM D 4833	kN(lbs)	0.53 (120)
Apparent Opening Size (AOS) <sup>2</sup>	ASTM D 4751	mm U.S. Sieve)	0.425 (40)
Permittivity	ASTM D 4491	Sec <sup>-1</sup>	0.05
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	163 (4.0)
UV Resistance after 500 hours	ASTM D 4355	% Strength Retained	70

<sup>1</sup> ASTM D 4833 has been replaced with ASTM D 6241

<sup>2</sup> ASTM D 4751, AOS is a Maximum Opening Diameter Value

Physical Properties	Test Method	Unit	Typical Value	
Mass/Unit Area	ASTM D 5261	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	203 (6.0)	
Roll Dimension (width x length)	--	M ft	3.8 x 110 (12.5 x 360)	5.3 x 78.7 (17.5 x 258)
Roll Area	--	M <sup>2</sup> (yd <sup>2</sup> )	418 (500)	418 (500)
Estimated Roll Weight	--	Kg (lb)	95 (210)	95 (210)

(PLEASE NOTE: Mullen Burst Strength ASTM D 3786 is not recognized by ASTM D-35 on Geosynthetics as an acceptable Geosynthetic test methods. Puncture Strength ASTM D 4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D 6241. Starting in 2010 these properties will no longer be published on our TDS.)

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