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RG315W Woven Geotextile Technical Data Sheet

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.

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)	0.533 (120)
CBR Puncture Strength ¹	ASTM D 6241	kN(lbs)	4.01 (900)
Apparent Opening Size (AOS) ²	ASTM D 4751	mm U.S. Sieve)	0.425 (40)
Permittivity	ASTM D 4491	Sec ⁻¹	0.05
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	163 (4.0)
UV Resistance after 500 hours	ASTM D 4355	% Strength Retained	70

¹ ASTM D 6241 replaces ASTM D 4833.

² ASTM D 4751, AOS is a Maximum Opening Diameter Value

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

Physical Properties	Test Method	Unit	Typical Value	
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	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 ² (yd ²)	418 (500)	418 (500)
Estimated Roll Weight	--	Kg (lb)	95 (210)	95 (210)

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