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GEOSYNTHETICS

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RG16N Nonwoven Geotextile Technical Data Sheet

Reed & Graham's RG16N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. RG16N 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)	1.69(380)
Grab Tensile Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.62(140)
Mullen Burst Strength	ASTM D 3786	kPa(psi)	5098(740)
Puncture Strength[1]	ASTM D 4833	kN(lbs)	1.05(235)
Apparent Opening Size (AOS)[2]	ASTM D 4751	mm (U.S. Sieve)	0.150 (100)
Permittivity	ASTM D 4491	Sec^{-1}	0.54
Flow Rate	ASTM D 4491	$l/min/m^2$ $(gal/min/ft^2)$	2035 (50)
UV Resistance after 500 hours	ASTM D 4355	% Strength Retained	70

[1] ASTM D 4833 has been replaced with ASTM D 6241

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

Physical Properties	Test Method	Unit	Typical Value
Weight	ASTM D5261	g/m^2 (oz/yd^2)	509 (15)
Roll Dimension (width x length)	--	M ft	4.5 x 45 (15 x 150)
Roll Area	--	M^2 (yd^2)	209 (250)
Estimated Roll Weight	--	Kg (lb)	109 (240)

(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 our TDS.)