



REED & GRAHAM INC.

GEOSYNTHETICS

RG40N Nonwoven Filter Fabric Technical Data Sheet

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Reed & Graham's RG40N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. RG40N 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)	0.445 (100)
Grab Tensile Elongation	ASTM D 4632	%	60
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.20 (45)
Mullen Burst Strength	ASTM D 3786	kPa(psi)	1447 (210)
Puncture Strength ¹	ASTM D 4833	kN(lbs)	0.29 (65)
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)
Permittivity	ASTM D 4491	Sec ⁻¹	1.8
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	4885 (120)
Mass / Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	136 (4.0)
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	
Roll Dimension (width x length)	--	M ft	3.8 x 110 (12.5 x 360)	4.5 x 110 (15 x 360)
Roll Area	--	M ² (yd ²)	418 (500)	502 (600)
Estimated Roll Weight	--	Kg (lb)	69 (152)	83 (182)

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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