



RG50N Nonwoven Filter Fabric Technical Data Sheet

Reed & Graham's RG50N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. RG50N 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)	0.60 (135)
Grab Tensile Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.24 (55)
CBR Puncture Strength ¹	ASTM D 6241	kN(lbs)	1.56 (350)
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)
Permittivity	ASTM D 4491	Sec ⁻¹	1.4
Flow Rate	ASTM D 4491	l/min/m ²	4400
		(gal/min/ft ²)	-108
UV Resistance after 500 hours	ASTM D 4355	% Strength Re-tained	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
Weight	ASTM D5261	g/m ² (oz/yd ²)	183 (5.4)
Roll Dimension (width x length)		M	4.5 x 91
		ft	(15 x 300)
Roll Area		M2 (yd2)	418 (500)
Estimated Roll Weight		Kg (lb)	84 (186)

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