



REED & GRAHAM
G E O S Y N T H E T I C S

RG45N Nonwoven Filter Fabric Technical Data Sheet

Reed & Graham's RG45N is a nonwoven geotextile composed of polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. RG45N 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)	0.53(120)
Grab Tensile Elongation	ASTM D 4632	%	50
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.22(50)
CBR Puncture Strength ¹	ASTM D 6241	kN(lbs)	1.51 (340)
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (U.S. Sieve)	0.212 (70)
Permittivity	ASTM D 4491	Sec ⁻¹	1.7
Flow Rate	ASTM D 4491	l/min/m ²	4885
		(gal/min/ft ²)	120
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
Weight	ASTM D5261	g/m ² (oz/yd ²)	153 (4.5)
Roll Dimension (width x length)		M	3.8 x 110 4.5x110
		ft	12.5x360 15x360
Roll Area		M2 (yd ²)	418 (500) 502 (600)
Estimated Roll Weight		Kg (lb)	69 (152)

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www.rginc.com/geo

Toll Free Phone: 888.381.0800 Toll Free Fax: 866.430.1979