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GEOSYNTHETICS

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RG700W MONOFILAMENT GEOTEXTILE TECHNICAL DATA SHEET

RG700W geotextile is composed of high-tenacity monofilament polypropylene yarns, which are woven into a stable network such that the yarns retain their relative position. RG700W geotextile is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids.

Mechanical Properties	Test Method	Unit	Minimum Average Roll Value	
			MD	CD
Wide Width Tensile Strength	ASTM D 4595	kN/m(lbs/ft)	39.4 (2700)	25.4 (1740)
Grab Tensile Strength	ASTM D 4632	N (lbs)	1647(370)	1113 (250)
Grab Tensile Elongation	ASTM D 4632	%	15	
Trapezoid Tear Strength	ASTM D 4632	N (lbs)	445 (100)	267 (60)
Mullen Burst Strength	ASTM D 3786	KPa (psi)	3100 (450)	
Puncture Strength ¹	ASTM D4833	N (lbs)	534 (120)	
CBR Puncture Strength	ASTM D 6241	N (lbs)	4228 (950)	
Apparent Opening Size (AOS) ²	ASTM D 4751	mm (US Sieve)	0.212 (70)	
Percent Open Area	COE-02215	%	4	
Permittivity	ASTM D 4491	Sec ⁻¹	0.28	
Permeability	ASTM D 4491	cm/sec	0.01	
Flow Rate	ASTM D 4491	l/min/m ² (gal/min/ft ²)	733 (18)	
UV Resistance (at 500 hours)	ASTM D 4355	% strength retained	90	

¹ASTM D 4833 has been replaced with ASTM D 6241

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

Physical Properties	Test Method	Unit	Typical Value
Mass/Unit Area	ASTM D 5261	g/m ² (oz/yd ²)	210 (6.2)
Thickness	ASTM D 5199	Mm (mils)	0.4 (15)
Roll Dimensions (width x length)	---	m (ft)	3.7 (12) x 91 (300)
Roll Area	---	m ² (yd ²)	334 (400)
Estimated Roll Weight	---	Kg (lbs)	74 (164)

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