



SG

Standard Grade Lightweight Woven Geotextiles

Technical Data Sheet 1/2

Mechanical Properties	Test	Units	18/9 F	18/18-DS	18/18	20/20	27/27	30/30	36/40	40/40s*	40/40
Tensile Strength - MD	EN ISO 10319	kN/m	18,0	18,0	17,3	21,0	27,0	30,0	40,0	40,0	41,0
Tensile Strength - XD	EN ISO 10319	kN/m	16,0	18,0	17,3	21,0	27,0	30,0	40,0	40,0	41,0
Elongation at break - MD	EN ISO 10319	%	22,3	22,0	26,0	22,0	30,0	20,0	20,0	20,0	20,0
Elongation at break - XD	EN ISO 10319	%	13,0	13,0	26,0	12,0	27,0	11,0	10,0	11,0	22,0
CBR Puncture Resistance	EN ISO 12236	N	1 800	1 900	2 250	1 950	3 800	3 110	4 100	4 800	4 800
Dynamic Cone Drop	EN ISO 13433	mm	21,0	26,0	22,0	16,0	22,0	19,0	15,0	11,0	10,0

Hydraulic Properties	Test	Units	18/9	18/18-DS	18/18	20/20	27/27	30/30	36/40	40/40s	40/40
Characteristic Opening Size	EN ISO 12956	µm	260,0	210,0	305,0	200,0	600,0	540,0	350,0	180,0	305,0
Hydraulic Velocity	EN ISO 11058	m/s	25 x 10 ⁻³	17 x 10 ⁻³	23 x 10 ⁻³	13 x 10 ⁻³	32 x 10 ⁻³	29 x 10 ⁻³	23 x 10 ⁻³	16 x 10 ⁻³	18 x 10 ⁻³
Permeability	EN ISO 11058	l/m ² .s	25	17	23	13	32	29	23	16	18

Physical Properties	Test	Units	18/9	18/18-DS	18/18	20/20	27/27	30/30	36/40	40/40s	40/40
Thickness under 2 kPa	EN ISO 9863-1	mm	0,35	0,35	0,35	0,40	1,10	0,90	0,80	0,70	0,85
Weight	EN ISO 9864	g/m ²	71,6	73,0	87,0	87,0	152,3	120,6	160,6	164,0	209,6
Roll width		cm	450	525	525	525	525	525	525	525	525
Roll length		m	200	200	200	200	200	200	200	100	100
Full load volume (+/- 10%)		m ²	182 250	124 950	124 950	124 950	66 150	74 550	66 150	52 500	45 150
Roll diameter (+/- 10%)		cm	24	24	24	32	40	38	43	35	35

*Above SG 40/40-S product also exists with loops and anti-oxidant

Notes relating to the use of Bontec geotextile products

1. Bonar Technical Fabrics reserves the right to alter product specifications without prior notice.
2. It is the responsibility of all users to satisfy themselves that the above data is current.
3. The above figures are average values obtained from testing to current EN geotextile test standards. Although not guaranteed, these results do to the best of our knowledge, offer a true and accurate record of the products performance.
4. Polypropylene is the constituent polymer used in the production of the SG geotextile range.
5. Bonar Technical Fabrics cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request



Other grades of geotextile within the Bontec range include:

- Highflow & Highstrength Woven fabrics and Thermally Bonded and Needleponched Nonwovens

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