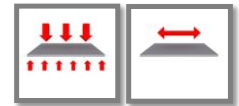


## HS

### Highstrength Woven Geotextiles



### Technical Data Sheet

Date: 14-01-2013 rev 09

Mechanical Properties	Test	Units	110/50	110/110	165/50	165/165	220/50	220/220	330/50	440/50
Tensile Strength - MD	EN ISO 10319	kN/m	110,0	110,0	165,0	165,0	220,0	220,0	330,0	440,0
Tensile Strength - XD	EN ISO 10319	kN/m	50,0	110,0	50,0	165,0	50,0	230,0	50,0	50,0
Strength at 2 % elongation - MD/CD	EN ISO 10319	kN/m	20/8	20/20	30/6	30/30	34/6	45/45	50/10	90/10
Strength at 5 % elongation - MD/CD	EN ISO 10319	kN/m	61/26	61/61	87/20	75/75	95/20	95/95	100/20	245/20
Elongation at break - MD	EN ISO 10319	%	10	10	10	10	10	10	10	10
Elongation at break - XD	EN ISO 10319	%	10	10	10	10	10	10	10	10
CBR Puncture Resistance	EN ISO 12236	N	6000	8000	7000	14000	7500	21000	8000	10000
Dynamic Cone Drop	EN ISO 13433	mm	15	15	15	25	15	28	25	20

### Hydraulic Properties

Permeability	EN ISO 11058	m/s	$25 \times 10^{-3}$	$25 \times 10^{-3}$	$15 \times 10^{-3}$	$20 \times 10^{-3}$	$10 \times 10^{-3}$	$30 \times 10^{-3}$	$9 \times 10^{-3}$	$8 \times 10^{-3}$
Waterflow normal to the plane	EN ISO 11058	l/m <sup>2</sup> .s	25	25	15	20	10	30	9	8
Characteristic Opening Size	EN ISO 12956	µm	300	250	175	190	120	400	100	150

### Physical Properties

Thickness under 2 kPa	EN ISO 9863-1	mm	0,45	0,55	0,50	0,70	0,65	1,15	1,30	1,30
Weight	EN ISO 9864	g/m <sup>2</sup>	247	317	329	477	416	660	560	759
Roll width		cm	525	525	525	525	515	530	525	525
Roll length		m	100	100	100	100	100	100	100	100
Full truck load volume (+/- 10%)		m <sup>2</sup>	68 680	54 540	54 540	32 550	48 000	25 440	30 450	22 050
Roll diameter (+/- 10%)		cm	30	30	30	35	32	40	38	48

### Durability

Natural UV light	ASTM 4533	100%
Chemical Resistance	EN 14030	100%
Microbiological Resistance	EN 12225	100%
Hydrolysis	EN 12447	80%

### Product Description

Polymer	100% Polyester
Density	1,38 kg/dm <sup>3</sup>
Melting Point	250°C
Construction	Multifilament



Bonar reserves the right to alter product specifications without prior notice. It is the responsibility of all users to satisfy themselves that the above data is current. The above figures are average values obtained from testing to current EN ISO geotextile test standards. All these products need to be covered within 2 weeks.