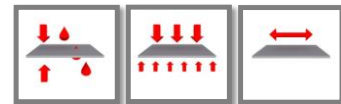


HF

High Flow Woven Geotextiles



Technical Data Sheet

Date: 3-12-2012 rev 15

Mechanical Properties	Test	Units	HF 180	HF 180 ZW	HF 360-L	HF 400*	HF 1300*
Tensile Strength - MD	EN ISO 10319	kN/m	41	40	41	28,8	18
Tensile Strength - XD	EN ISO 10319	kN/m	41	40	41	21	18
Elongation at break - MD	EN ISO 10319	%	30,0	30,0	30,0	35,0	40,0
Elongation at break - XD	EN ISO 10319	%	26,0	14,0	20,0	20,0	30,0
CBR Puncture Resistance	EN ISO 12236	N	5800	5000	4500	3200	2500
Dynamic Cone Drop	EN ISO 13433	mm	12	13	11	16	16

Hydraulic Properties							
Permeability	EN ISO 11058	m/s	70×10^{-3}	65×10^{-3}	122×10^{-3}	185×10^{-3}	600×10^{-3}
Waterflow normal to the plane	EN ISO 11058	l/m ² .s	70	65	122	185	600
Waterflow in the plane-20kPa	EN ISO 12958	m ² /s	1×10^{-7}	1×10^{-7}	1×10^{-7}	1×10^{-7}	1×10^{-7}
Characteristic Opening Size	EN ISO 12956	µm	180,0	249,0	360,0	400,0	1300,0

Physical Properties							
Thickness under 2 kPa	EN ISO 9863-1	mm	0,75	0,70	0,70	0,60	0,50
Weight	EN ISO 9864	g/m ²	215	212	207	129	91
Roll width		cm	525	525	525	525	525
Roll length		m	100	100	100	100	100
Full truck load volume (+/- 10%)		m ²	54 600	54 600	66 150	71 400	105 000
Roll diameter (+/- 10%)		cm	34	34	32	30	24

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

Product Description		
Polymer		PP/PE
Density	kg/dm ³	0,91/0,94
Melting Point	°C	165/120
Construction		Tape/Monofilament



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.