

The Ekotex® Range is a range of polypropylene, staple fibre, needlepunched nonwoven geotextiles and will meet the following roll values when tested in accordance with the methods listed below. The fibres are needed to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

Property		Test Method	Ekotex® 06 (700)	Ekotex® 07 (1000)	Ekotex® 10 (1300)	Ekotex® 12 (1500)	Ekotex® 14 (2000)	Ekotex® 18 (3000)	Ekotex® 20	Ekotex® 22 (4000)	Ekotex® 30 (4500)
Mechanical											
Tensile Strength	MD (kN/m)	EN ISO 10 319	6.0	8.0	11	13.8	18	20.7	25	26	31
	CD(kN/m)	EN ISO 10 319	6.0	8.0	11	14	18	20.7	25	26	31.6
Elongation	MD (%)	EN ISO 10 319	45	45	50	50	54	55	55	60	58
	CD (%)	EN ISO 10 319	50	55	60	63	60	60	62	60	65
Dynamic Perforation Resistance (Cone Drop) (mm)		EN 13433	42.75	34	26	21	20	18	10	10.48	9
Resistance to Static Puncture (CBR)(N)		EN ISO 12236	1000	1500	1800	2250	2900	3330	4000	4600	5560
CE References		-	1213-CPR-8357A	1213-CPR-8357A	1035-CPR-ES033858-B/A	1035-CPR-ES033858-B/B	1035-CPR-ES033858-B/C	1035-CPR-ES033858-B/D	1035-CPR-ES033858-B/E	1035-CPR-ES033858-B/F	1035-CPR-ES033858-B/G
Hydraulic											
Opening Size O_{90} (µm)		EN ISO 12956	140	120	88	83	78	70	58	57	56
Water flow capacity in the plane (m²/s)	gradient q20/1.0	EN ISO 12958	3.5 ¹⁰⁻⁶	3.5 ¹⁰⁻⁶	3.5 ¹⁰⁻⁶	3.5 ¹⁰⁻⁶	4.1 ¹⁰⁻⁶	4.1 ¹⁰⁻⁶	7.8 ¹⁰⁻⁶	8.20 ¹⁰⁻⁶	9.53 ¹⁰⁻⁶
	gradient q200/1.0	EN ISO 12958	3 ¹⁰⁻⁶	3 ¹⁰⁻⁶	3 ¹⁰⁻⁶	3 ¹⁰⁻⁶	3.5 ¹⁰⁻⁶	3.5 ¹⁰⁻⁶	2.28 ¹⁰⁻⁶	2.58 ¹⁰⁻⁶	3.46 ¹⁰⁻⁶
Water Flow Rates (L/m²/s)		EN ISO 11058	120L/m²/s	110L/m²/s	70L/m²/s	60L/m²/s	60L/m²/s	50L/m²/s	63L/m²/s	50L/m²/s	43L/m²/s
Durability		Cover after application / Durable for a minimum of 25 years in natural soils with a <pH<9 and a temperature <25°C									
Other											
Roll sizes (m)		-	4.5 x 100	4.5 x 100	5.5 x 100	5.5 x 100	4.5 x 100 5.5 x 100	5.5 x 100	5.5 x 80 2.75 x 40 2.75 x 80	5.5 x 50	5.5 x 50
Maximum roll size (m)		-	5.5 x 100	5.5 x 100	5.5 x 100	5.5 x 100	5.5 x 100	5.5 x 100	5.5 x 80	5.5 x 70	5.5 x 60
Roll diameter (cm)		-	33	34	38	45	46 46	50	52 33 46	50	50
Roll weight (kg) excluding core		-	36	45	77	86	90 99	139	132 33 63	99	111
Roll weight (kg) including core		-	41	50	83	92	95 105	145	138 34 69	105	117
Thickness under 2 kPa (mm)		EN ISO 9863-1	1	1.1	1	1.15	1.2	1.4	2.5	2.44	3.06

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge becomes available. Since we cannot anticipate all variations in actual end use conditions, Geosynthetics Limited makes no warranties and assumes no liabilities in connection with this information. Nothing in this publication is to be considered as a licence to operate under or a recommendation to infringe any patent right.

