



PRODUCT DATA SHEET

# Ekotex Range

The Ekotex Range are 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)	
<b>Mechanical</b>											
Tensile Strength	MD (kN/m)	EN ISO 10 319	6.0	8.0	11	13.8	16	20.7	25	26	31
	CD (kN/m)	EN ISO 10 319	6.0	8.0	11	14	16	20.7	25	26	31.6
Elongation	MD (%)	EN ISO 10 319	53	50.58	50	50	54	55	55	60	58
	CD (%)	EN ISO 10 319	57	60	60	63	60	60	62	60	65
Dynamic Perforation Resistance (Cone Drop) (mm)	EN 13433	42.75	35.6	26	21	20	18	10	10.48	9	
Resistance to Static Puncture (CBR) (N)	EN ISO 12236	1050	1500	1800	2250	2750	3330	4000	4600	5560	
CE References	-	1035-CPR-ES033858B	1035-CPR-ES033858B	1035-CPR-ES033858B	1035-CPR-ES033858B	1035-CPR-ES033858B	1035-CBR-ES033858A	1035-CPR-ES033858B	1035-CBR-ES033858A	1035-CBR-ES033858A	
<b>Hydraulic</b>											
Opening Size $O_{90}$ (µm)	EN ISO 12956	95	95	88	83	78	70	58	57	56	
Water flow capacity in the plane (m <sup>2</sup> /s)	gradient q20/1.0	EN ISO 12958	3.5 <sup>10-6</sup>	3.5 <sup>10-6</sup>	3.5 <sup>10-6</sup>	3.5 <sup>10-6</sup>	4.1 <sup>10-6</sup>	4.1 <sup>10-6</sup>	7.8 <sup>10-6</sup>	8.20 <sup>10-6</sup>	9.53 <sup>10-6</sup>
	gradient q200/1.0	EN ISO 12958	3 <sup>10-6</sup>	3 <sup>10-6</sup>	3 <sup>10-6</sup>	3 <sup>10-6</sup>	3.5 <sup>10-6</sup>	3.5 <sup>10-6</sup>	2.28 <sup>10-6</sup>	2.58 <sup>10-6</sup>	3.46 <sup>10-6</sup>
Water flow rate (L/m2s)	EN ISO 11058	110	110	70	60	60	50	63	50	43	
Durability	• Cover after application / Durable for a minimum of 100 years in natural soils with a 4<pH<9 and a temperature <25°C.										
<b>Other</b>											
Roll Sizes (m)	-	4.5 x 100	4.5 x 100	2.2 x 100 5.5 x 100	4.5 x 100 5.5 x 100	4.5m x 100m 5.5m x 100m	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 38	45 45	46 46	50	52 33 46	50	50	
Roll Weight (kg) ex Core	-	36	45	77 33	81 86	90 99	139	132 33 63	99	111	
Roll Weight (kg) inc Core	-	41	50	83 35.5	86 92	95 105	145	138 34 69	105	117	
Thickness under 2 kPa (mm)	EN ISO 9863 -1	0.61	0.82	1	1.15	1.2	1.5	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.

