

# Ekotex Range

The Ekotex Range are a range of polypropylene, stable 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 20
MECHANICAL								
Tensile Strength	MD (kN/m)	EN ISO 10 319	6.0	8.0	11.5	14	16	23
	CD (kN/m)	EN ISO 10 319	6.0	8.0	12	15	16.5	25
Elongation	MD (%)	EN ISO 10 319	60	60	60	60	60	60
	CD (%)	EN ISO 10 319	60	60	60	60	60	60
Dynamic Perforation Resistance (Cone Drop) (mm)		EN 13433	39	34	24	21	19	10
Resistance to Static Puncture (CBR) (kN)		EN ISO 12236	1.05	1.5	2	2.25	2.75	4

HYDRAULIC								
Opening Size $O_{90}$ (mm)		EN ISO 12956	0.075	0.068	0.061	0.060	0.060	0.058
Water Flow Rate (l/(m <sup>2</sup> s))		EN ISO 11058	120	115	96	85	79	63
Water flow capacity in the plane (m <sup>2</sup> /s)	gradient q20/1.0	EN ISO 12958	3.41 <sup>10-6</sup>	4.49 <sup>10-6</sup>	5.83 <sup>10-6</sup>	3.77 <sup>10-6</sup>	6.12 <sup>10-6</sup>	6.06 <sup>10-6</sup>
	gradient q200/1.0	EN ISO 12958	1.25 <sup>10-6</sup>	1.14 <sup>10-6</sup>	1.6 <sup>10-6</sup>	1.42 <sup>10-6</sup>	2.78 <sup>10-6</sup>	2.28 <sup>10-6</sup>
Durability		<ul style="list-style-type: none"> <li>• Cover after application.</li> <li>• Durable for a minimum of 100 years in natural soils with a 4&lt;pH&lt;9 and a temperature &lt;25°C.</li> </ul>						

OTHER								
Roll Sizes (m)			4.5 x 100	4.5 x 100	4.5 x 100 2.2 x 100	4.5 x 100 2.2 x 100	5.0 x 100	5.5 x 80 2.2 x 50
Roll Diameter (cm)			33	34	38 38	45 45	46	52 37
Roll Weight (kg)			42	45	63 31	86 42	105	132 33
Weight g/m <sup>2</sup>		EN ISO 9864	90	100	140	180	200	300
Thickness under 2 kPa (mm)		EN ISO 9863 -1	0.9	1.11	1.48	1.63	1.74	2.4

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.

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