DuraForce® Geotextiles

Woven Geotextiles

TECHNICAL FABRICS WG Series	
TECHNICAL DATA SHEET	TDS G 001 005
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DuraForce® WG technical fabrics are polythene, UV stabilised, high strength, black woven geotextile, used for many civil engineering and building applications and are manufactured to **ISO 9001:2000** certification. They are also resistant to chemicals and biological agents. **WG geotextiles** conform to the property values listed below. All technical data is based on statistical analysis from internal and external laboratory results.

PROPERTY	METHOD	UNIT	WG14/14	WG16/16	WG21/21	WG30/30	WG60/60	WG80/80	WG 100/100	WG150/150
MECHANICAL										
Tensile Strength (MD/CD)	EN 10319	kN/m	14/14	16/16	21/21	30/30	60/60	80/80	105/105	150/150
Elongation (MD/CD)	EN 10319	%	14/10	15/13	16/13	16/14	15/10	15/11	15/11	15/10
Resistance to Static Puncture	EN ISO 12236	N	1800	2300	2600	3300	7000	10000	12000	18000
Dynamic Perforation Resistance	EN 13433	mm	21	19	20	14	12	5	3	4
HYDRAULIC										
Characteristic Opening Size (O_{90})	EN ISO 12956	µm	300	250	150	230	225	110	175	-
Water Flow Rate (dh = 50mm)	EN ISO 11058	l/m² sec	5	12	4	7	18	10	9	10
ENDURANCE										
UV Resistance	EN 12224	% retained @ 500hr	90	90	90	90	90	90	90	90

NOTES:

1. All the above figures are average values obtained from testing to current EN standard in our laboratory and at external institutes.
2. Cirtex Industries Ltd reserves the right to alter product specifications at any time without prior notice. It is the responsibility of all users to satisfy themselves that the above data is current.
3. Polypropylene is the constituent polymer used in the production of the WG geotextiles series.
4. To be covered within one month after installation. All above geotextiles are predicted to be durable for more than 50 years in soil temperature >25˚C and are resistant to highly acid and alkaline environments on the basis of a durability assessment. All of them have been satisfactorily assessed for resistance to oxidation (ENV ISO 13438), microbiological degradation (ENV 12225) and chemical aging (ENV ISO 12960-Method A: inorganic acid and Method B: organic base).