

High Strength Woven Geotextiles

WG series – Technical table (Metric values)



F=Filtration



S=Separation



D=Drainage



R=Reinforcement



Erosion Control

WG technical fabrics are polypropylene, UV stabilized, high strength, black woven geotextile, used for many civil engineering and building applications. It is manufactured at one of facilities that have achieved **ISO 9001:2008** certification for its systematic approach to quality. They are also resistant to chemicals and biological agents. **WG geotextiles** conform to the property values listed below. All technical data are based on statistical analysis from internal and external laboratory results.

PROPERTY	METHOD	UNIT	WG14	WG16	WG18	WG22	WG25	WG30	WG32	WG40	WG42	WG48	WG55	WG60	WG65	WG80	WG85	WG105
MECHANICAL																		
Tensile Strength (MD/CD)	EN 10319	kN/m	18/14	18/16	18/18	22/22	25/25	30/30	32/32	40/40	42/42	48/48	55/55	65/60	65/65	85/75	85/85	105/105
Elongation (MD/CD)	EN 10319	%	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	20/15	20/15	20/15	20/15	20/15	20/15
Resistance to static puncture	EN ISO 12236	N	2000	2300	2500	2700	3000	3300	3500	4500	5000	6000	6500	7500	8000	10000	10500	12000
Dynamic Perforation resistance	EN 13433	mm	21	19	17	14	12	12	12	10	10	8	8	7	7	4	4	3
HYDRAULIC																		
Characteristic Opening Size (O ₉₀)	EN ISO 12956	µm	250	250	250	250	250	230	230	200	200	200	180	180	225	225	200	175
Water Permeability normal to the plane (V _{IH50})	EN ISO 11058	m/s*10 ⁻³	7	7	7	7	7	7	7	7	7	7	15	18	18	15	10	9
Water Flow Rate (dh =50mm)	EN ISO 11058	l/m ² *s	7	7	7	7	7	7	7	7	7	7	15	18	18	15	10	9
PHYSICAL																		
Mass/Unit Area	EN 9864	gr/m ²	85	95	100	120	130	140	160	190	210	230	265	270	290	360	380	480
Thickness	EN 9863-1	mm	0.5	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.9	1.1	1.2	1.0	1.0	1.2	1.2	1.4
ENDURANCE																		
UV Resistance	EN 12224	%retained @500hr	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
STANDARD PACKAGING																		
Roll Width / Roll Length	Measured	m	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.3/100	5.2/100	5.2/100	5.2/100	5.2/100
Roll Area	Calculated	m ²	530	530	530	530	530	530	530	530	530	530	530	530	520	520	520	520

Applications and intended uses of High Strength Woven Geotextiles

EN 13249	EN 13250	EN 13251	EN 13252	EN 13253	EN 13254	EN 13255	EN 13256	EN 13257	EN 13265
F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F D F+S F+D	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S	F R F+S R+S F+R F+R+S

NOTES:

- All the above figures are averages values obtained from testing to current EN standard in our laboratory and at external institutes.
- Technical Fabrics reserve 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 are current.
- Polypropylene is the constituent polymer used in the production of the WG geotextiles series.
- To be covered within one month after installation. All the above geotextiles are predicted to be durable for more than 50 years in soil temperatures >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 ageing (ENV ISO 12960-Method A: inorganic acid and Method B: organic base).

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