

DFK Geosynthetics

Product Data Sheet **WG105**

WG105 technical fabric is a polypropylene, UV stabilized, high strength, black woven geotextile, used for many civil engineering and building applications. It is manufactured at one of DFK Geosynthetics facilities that have achieved ISO 9001:2008 certification for its systematic approach to quality. It is also resistant to many chemicals and biological agents. **WG105** conforms to the property values listed below. All technical data are based on statistical analysis from internal and external laboratory results.

PROPERTY	TEST METHOD	VALUE	METRIC UNITS	TOLERANCE	
MECHANICAL					
Tensile Strength (MD/CD)	EN 10319	Average	kN/m	105/105	-5.0/-5.0
Elongation (MD/CD)	EN 10319	Average	%	20/15	±4/±3
Resistance to static puncture	EN ISO 12236	Average	N	12000	-1000
Dynamic Perforation resistance	EN ISO 13433	Average	mm	3	+1
HYDRAULIC					
Characteristic Opening Size (O_{90})	EN ISO 12956	Average	μm	175	±50
Water permeability VI_{H50}	EN ISO 11058	Average	$\text{m/sec} * 10^{-3}$	9	-3
Water flow rate	EN ISO 11058	Average	$1/\text{m}^2/\text{sec}$	9	-3
PHYSICAL					
Mass/Unit Area	EN 9864	Average	gr/m^2	480	±20.0
Thickness (2kPa)	EN 9863-1	Average	mm	1.4	±0.1
ENDURANCE					
Weathering Resistance (MD/CD)	EN 12224	Average	%retained @500hr	90	-
STANDARD PACKING					
Roll Width	Measured	Typical	m	5.2	-0.01
Roll Length	Measured	Typical	m	100	-2
Roll Area	Calculated	Typical	m^2	520	-0.02

NOTES:

1. All the above figures are averages values obtained from testing to current EN standard in our laboratory and at external institutes.
2. DFK Geosynthetics Technical Fabrics 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 are current.
3. Polypropylene is the constituent polymer used in the production of the WG geotextiles series.

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