



GEOTEXTILE

(SEPARATION & FILTRATION)

www.fw-nicol.com

Singapore • Philippines • Bangladesh • Sri Lanka

SPECIFICATIONS

PROPERTIES	UNIT	TEST METHOD	GF15	GF20	GF25	GF30	GF35	GF40	GF50	GF60	GF80
Mass Per Unit Area	g/m ²	ISO 9864	150	200	250	300	350	400	500	600	800
Thickness(2Mpa)	mm	ISO 9863	1.2	1.6	1.9	2.2	2.5	2.8	3.4	4.2	5.5
Tensile Stregth(CD/MD)	KN/m	ISO 10319	7.5	10.0	12.5	15.0	17.5	20.5	25.0	30.0	40.0
Elongation	%	ISO 10319	40-80								
Trapezoidal Tear(CD/MD)	N	ISO 9037.4	210	280	350	420	480	540	660	790	1020
CBR Puncture	KN	ISO 12236	1.6	1.9	2.4	2.9	3.4	3.9	5.3	6.4	7.9
Vertical Permeability	cm/s	ISO 11058	K×(10 ⁻¹ ~ 10 ⁻³) K=1.0 ~ 9.9								
Opening size O ₉₅	mm	ISO 12956	0.07 ~ 0.2								
Physical Characteristic			100% Polyester / Polypropylene , non-woven needle punched								
UV Resistance		ISO 4892.2	Tensile Strength Retention > 70% after 500 hours Puncture Strength retention > 70% after 500 hours								

NOMINAL DIMENSIONS

Roll Width	UNIT	GF15	GF20	GF25	GF30	GF35	GF40	GF50	GF60	GF80
Roll Width	m	4	4	4	4	4	4	4	4	4
Roll Length	m	200	150	120	100	85	75	60	50	40



Our non-woven, needle-punched polyester / polypropylene geotextile is made of continuous filament fiber. On request, it can be manufactured to withstand UV light and it is resistant to acid, alkali, and aggressive bacteria in soils. It is specially designed and produced to provide optimum physical and hydraulic properties suitable for road, railway, airport, landfill, and other construction projects.

FW Nicol geotextile can be used as Drainage Filter. It can also act as a separator between two layers of soil with different particle size and properties. We also have high performance geotextile which are stitched into bags or sacks filled with sand or other infill materials for coastal protection.

QUALITY PRODUCTS • AFFORDABLE PRICES • RELIABLE AFTERSALES

www.fw-nicol.com

FW NICOL INTERNATIONAL PTE LTD
28 Sin Ming Lane, Unit 05-139,
Midview City, Singapore 573972
Tel: +65 6684 0880
Email: singapore@fw-nicol.com

FW NICOL PHILIPPINES, INC.
1, San Miguel Ave, Unit 1601,
Ortigas Center, Pasig City, Philippines
Tel: +63 2 8632 9988
Email: philippines@fw-nicol.com

FW NICOL BANGLADESH
UTC Building, 19th Floor, 8, Panthapath,
Kawranbazar, Dhaka 1215, Bangladesh
Tel: +880 96 1188 6779
Email: bangladesh@fw-nicol.com

FW NICOL LANKA (PVT) LTD.
No. 404/1, 1/1, Thimbirigasyaya Road
Colombo-05, Sri Lanka
Tel: +94 11 7202266
Email: sri.lanka@fw-nicol.com

FW NICOL CONSTRUCTION CORPORATION
1, San Miguel Ave, Unit 1601
Ortigas Center, Pasig City, Philippines
Tel: +63 2 8632 9988
Email: construction@fw-nicol.com