VABREN

Filament Polyester Geotextile

Strength grades: GB/T 17639-2023

Continuous filament polyester (PET) spunbond needle punched nonwoven geotextile for separation, filtration, drainage and geomembrane protection.

Supply: 100-800 g/m² | roll width 1-6 m | roll length 50-100 m.

Nominal strength (kN/m)	Breaking strength (MD/TD, kN/m)	CBR puncture strength (kN)	Tear strength (MD/TD, kN)	Dynamic puncture hole diameter (mm, ≤)
6	≥6.0	≥0.9	≥0.15	37.0
9	≥9.0	≥1.6	≥0.22	33.0
12	≥12.0	≥1.9	≥0.29	27.0
18	≥18.0	≥2.9	≥0.43	20.0
24	≥24.0	≥3.9	≥0.57	17.0
30	≥30.0	≥5.3	≥0.71	14.0
36	≥36.0	≥6.4	≥0.83	11.0
48	≥48.0	≥7.9	≥1.10	9.0
54	≥54.0	≥8.5	≥1.25	7.0

MD/TD = machine/transverse directions.

Select mass per unit area, nominal strength, opening size and permeability to suit the project design. Prepare the subgrade, specify overlaps or seams and protect the fabric during placement.

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GB/T 17639-2023 | hydraulic and dimensional requirements

Property	Requirement
Elongation at maximum load (MD/TD)	30-80%
Equivalent opening size O90 (O95)	0.05-0.30 mm
Vertical permeability coefficient	K × (10^{-1}-10^{-3}) cm/s; K = 1.0-9.9
Width deviation	≥-0.5%
Mass per unit area deviation	≥-5%
Thickness deviation	≥-10%
Thickness coefficient of variation (CV)	≤10%
UV resistance (xenon arc): strength retention	≥70%
UV resistance (fluorescent UV): strength retention	≥80%

Project quotation

Send application, quantity in m², destination country and port, mass per unit area, strength grade, roll width and length, opening size, permeability and project standard. Attach drawings or the project specification.

Product: vabren.com/products/filament-polyester-geotextile/

Installation: vabren.com/resources/geotextile-overlap-and-installation-guide/

Selection: vabren.com/resources/filament-vs-short-fiber-geotextile/