

TECHNICAL DATA SHEET / POLYPROPYLENE WOVEN GEOTEXTILE

BaseWoven BW-PP

Standard separation, filtration and construction-survivability range

DESIGN PURPOSE

A robust woven separator below unbound roads, access tracks, platforms and capping layers. Select the grade from puncture, grab, tear, opening size, hydraulic response and the construction method - not from ultimate tensile strength alone.

PRIMARY APPLICATIONS

Unbound roads; access tracks; working platforms; capping layers; separation beneath granular construction fills.

NOT ASSIGNED

No published long-term design strength and no Australian G-rating. Do not use ultimate strength as structural embankment resistance.

STANDARD SUPPLY

5.2 m x 100 m rolls. Black PP woven. Custom widths, lengths, strengths and opening sizes available for project manufacture.

STANDARD GRADE SCHEDULE - MECHANICAL VALUES ARE MARV

Grade	Wide-width tensile MD / CD kN/m	Elongation MD / CD %	Grab N	CBR puncture kN	Trapezoid tear N	Flow rate L/min/m ²	Permittivity s-1	Opening mm
BW-PP40	40 / 40	<10 / <10	1,410	5.5	500	1,900	0.64	0.425
BW-PP50	52 / 52	<10 / <10	1,880	7.5	610	2,000	0.67	0.425
BW-PP70	67 / 60	<10 / <10	2,400	8.5	690	2,500	0.83	0.450
BW-PP80	80 / 80	<10 / <10	2,600	8.8	800	2,000	0.67	0.450
BW-PP90	90 / 90	<10 / <10	2,700	9.0	1,300	2,500	0.83	0.420

BASEWOVEN BW-PP / APPLICATION AND SPECIFICATION

Select around the ground, fill and installation

Test basis: wide-width tensile ASTM D4595; grab ASTM D4632; CBR puncture ASTM D6241; tear ASTM D4533; flow rate and permittivity ASTM D4491. The supplied opening values are manufacturer data; confirm the project-specified opening-size method before approval. ASTM D4751 AOS, ISO 12956 O90 and Australian EOS/G-rating inputs are not interchangeable.

1. GROUND

Record subgrade CBR, soil type, moisture condition and whether filtration or drainage continuity is required.

2. FILL

Confirm grading, maximum particle size, angularity and whether the opening-size criterion is compatible with the retained soil.

3. CONSTRUCTION

Nominate lift thickness, plant, overlap, cover and repair rules. Installation damage is fill and method dependent.

FUNCTIONAL BOUNDARY

BaseWoven BW-PP is a continuous separation and filtration sheet. Tensile strength improves handling and survivability, but this range is not presented as an extruded pavement grid and does not mobilise aggregate interlock through open apertures.

Do not assign pavement layer reduction, trafficking improvement or structural LTDS without product-specific design evidence.

INSTALLATION PRINCIPLES

Lay flat on the approved formation; use the specified overlap; end-tip onto placed cover; push fill forward; do not traffic tracked plant directly on the exposed woven; establish the nominated cover before trafficking; patch and record damage before burial.

Overlap increases as support reduces. Extremely soft ground requires an engineered placement and continuity plan.

ORDERING INFORMATION

State	Grade	Roll width and length	Quantity	Project specification	Subgrade / retained soil	Fill and placement
Example	BW-PP70	5.2 m x 100 m	12 rolls	Project schedule	CBR and soil description	Grading, max size, lift, plant

Values are manufacturer-published unless otherwise stated. This data sheet supports product selection but does not replace project design, authority acceptance, conformance testing or installation specifications. Kontain can manufacture project-specific roll dimensions, strength and opening size subject to order quantity and production review.