

Protech GM Protection Fleece

GAS PROTECTION

DESCRIPTION

Thick Needlepunched nonwoven geotextile manufactured from 100% virgin polypropylene high tenacity fibres containing 1% active carbon black.

Membrane protection to be used in conjunction with Protech GM Membranes.

FEATURES

- Optimised for maximum strength and performance – not mass.
- Manufactured from a blend of high tenacity fibres
- 100% virgin polypropylene fibres for guaranteed durability
- Carbon black for UV stability



	Test	Unit	MEAN VALUES
MECHANICAL PROPERTIES			
Static Puncture (CBR)	EN ISO 12236	kN	2
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	10
Tensile Elongation (MD/CMD)	EN ISO 10319	%	80
Cone Drop	EN 13433	mm	13
Protection Efficiency	EN ISO 13719	kN/m ²	-
FILTER PROPERTIES			
Apparent Opening Size	EN ISO 12956	µm	150
Water flow	EN ISO 11058	l/s/m ²	100
Coefficient of Permeability	EN ISO 11058	m.s	7
PHYSICAL PROPERTIES			
Thickness @ 2kPa	EN ISO 9863-1	mm	3.5
Carbon black content			1% active carbon black
Standard Colour			Black
Polymer			100% Virgin Polypropylene

Notes:

- Mean values indicate the arithmetic mean derived from the samples taken for any one test as defined in the standard – usually an overall mean of five samples. Mean values are subject to tolerances based on 95% confidence limits as published on the product CE declaration of performance.
- Nominal Value (indicates an average manufacturing norm and not a controlled performance parameter)
- MD: Machine Direction (longitudinal to the roll)
- CMD: Cross Machine Direction (across the roll)
- Tensile testing is performed using extensometers

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Test			VALUES
DURABILITY - Composite			
Weathering 50J/m ² (1 month)	EN 12224		>90% Retained Strength
Microbiological resistance	EN 12225		No loss in strength
Resistance to acids & alkalis	EN 14030		No loss in strength
Oxidation at 85 days (100 years)	EN 13438		>90% Retained Strength

NEEDLE DETECTION

During manufacture, the protection geotextile passes close to three sets of magnets which remove metal particles up to 12g and >2mm. Just before the roll up, the geotextile passes through an electronic metal detection field. Audio and visual alarms indicate if metal particles are detected. Rolls are sent to stock if they pass through the field without an alarm event or, in the case of an alarm event, the operator inspects the suspect area, locates any metal particles and removes them. If unsuccessful, or if any doubt remains as to the presence of metal particles, then the roll goes to the re-inspection facility.

TESTING

All material is tested every 6000m² in an UKAS accredited ISO 17025 laboratory to all mechanical properties prior to release.

STORAGE

Geotextile and Geotextile related products – Identification on site. Use slings where provided. Product weights are given on roll tickets. Use equipment appropriate to weight and dimension. Store and handle in accordance with occupational hygiene and safety practice.

	VALUES
DIMENSIONS	
Standard Roll Length	50m
Standard Roll Widths	1m
Approximate Roll Weight	14kg



nbsPlus



Download a full Gas Protection brochure from our website...

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