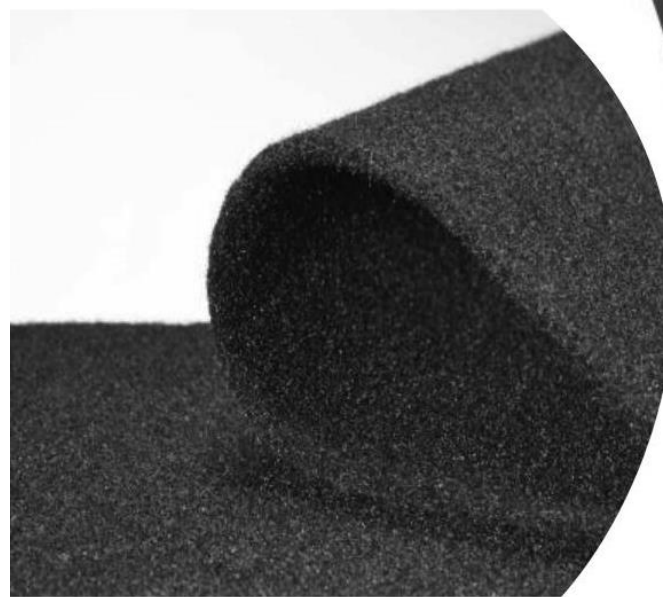




SPUDULICA HPS4 Fleece membrane



HPS4 Fabric – Black Non-Woven 350GSM

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

	Test	Unit	MEAN VALUES
4. MECHANICAL PROPERTIES			
Static Puncture (CBR)	EN ISO 12236	kN	4
Push through displacement	EN ISO 12236	mm	65
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	25
Tensile Elongation (MD/CMD)	EN ISO 10319	%	80
Cone Drop	EN ISO 13433	mm	5
Protection Efficiency	EN ISO 13719	kN/m ²	-
5. FILTER PROPERTIES			
Apparent Opening Size	EN ISO 12956	µm	100
Water flow	EN ISO 11058	l/s/m ²	75
Coefficient of Permeability	EN ISO 11058	m.s 10 ⁻³	6.6
6. PHYSICAL PROPERTIES			
Thickness @ 2kPa (nominal)	EN ISO 9863-1	mm	4.4
Carbon black content			1% active carbon black
Standard Colour			Black
Polymer			100% Virgin Polypropylene

- Notes:
- a) 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.
 - b) Nominal Value (indicates an average manufacturing norm and not a controlled performance parameter)
 - c) MD: Machine Direction (longitudinal to the roll)
 - d) CMD: Cross Machine Direction (across the roll)
 - e) Tensile testing is performed using extensometers

	Test	VALUES
7. DURABILITY		
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

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