

# Datasheet

Material Specification

## FrostSecure Pro - Needle Punched and thermally bonded Non-woven

### Product description

Polymer	Density	Melting Point	Construction
PP	0.91 kg/dm <sup>3</sup>	165°C	Fibres

### Properties

Mechanical Properties	Standard	Performance	Tolerance
Tensile strength - MD	EN ISO 10319	8 kN/m	-1 kN/m
Tensile strength - CMD	EN ISO 10319	8 kN/m	-1 kN/m
Elongation at maximum load - MD	EN ISO 10319	45 %	+/- 10,4 %
Elongation at maximum load - CMD	EN ISO 10319	55 %	+/- 12,7 %
Static puncture resistance (CBR)	EN ISO 12236	1.24 kN	-0.12 kN
Dynamic perforation resistance (cone drop)	EN ISO 13433	34 mm	+8,5 mm

Hydraulic Properties	Standard	Performance	Tolerance
Water permeability normal to the plane (vh50)	EN ISO 11058	110 l/m <sup>2</sup> s	-33 l/m <sup>2</sup> s
Waterflow in the plane, @20 kPa	EN ISO 12958	-	-
Characteristic Opening Size (O90)	EN ISO 12956	120 µm	+/- 36 µm

Physical Properties	Standard	Performance	Tolerance
Thickness under 2 kPa	EN ISO 9863-1	1 mm	+/- 0,20 mm
Weight	EN ISO 9864	100 g/m <sup>2</sup>	+/- 10 g/m <sup>2</sup>
Length (+/- 1%) x width (+/- 1%)	-	100 x 5.25 m	-
Roll diameter (+/- 10%)	-	29 cm	-

Durability	Standard	Performance
Predicted minimal durability in years in natural soils with 4 < pH < 9 and soil temperatures < 25°C	Applicable application standard: Annex B	100
Maximum allowed time between installation and covering of the geosynthetic	EN 12224	2 weeks

FrostSecure Pro contains UV inhibitors and is suitable for outdoor applications.

For further assistance call our team on **020 3597 0843**