

Bontec® TS 4

Needle punched and thermally bonded Nonwoven
Geotextiles

Technical data sheet

Product description

Polymer	Density	Melting Point	Construction
PP	0,91 kg/dm³	165 °C	Fibres

Properties

Mechanical Properties	Standard	Performance	Tolerance
Tensile strength - MD	EN ISO 10319	22,3 kN/m	-2,2 kN/m
Tensile strength - CMD	EN ISO 10319	22,3 kN/m	-2,2 kN/m
Elongation at maximum load - MD	EN ISO 10319	50 %	+20,0/-10,0 %
Elongation at maximum load - CMD	EN ISO 10319	50 %	+20,0/-10,0 %
Static puncture resistance (CBR)	EN ISO 12236	2,8 kN	-0,28 kN
Dynamic perforation resistance (cone drop)	EN ISO 13433	17 mm	+4,3 mm

Hydraulic Properties	Standard	Performance	Tolerance
Water permeability normal to the plane (vh50)	EN ISO 11058	40 l/m²s	-12 l/m²s
Waterflow in the plane, @20 kPa	EN ISO 12958	-	-
Characteristic Opening Size (O90)	EN ISO 12956	80 µm	+/-24,0 µm

Physical Properties	Standard	Performance	Tolerance
Thickness under 2 kPa	EN ISO 9863-1	1,5 mm	+/-0,3 mm
Weight	EN ISO 9864	260 g/m²	+/-26 g/m²
Length (+/- 1%) x width (+/- 1%)		125 x 5,25 m	
Roll diameter (+/- 10%)		48 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	

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