

Tropic Construction Solution



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NEEDLE PUNCHED & THERMALLY BONDED NON-WOVEN GEOTEXTILE Nw 21

TECHNICAL DATA SHEET

Description

Polymer	Density	Melting Point	Construction
PP	0,91 kg/dm ³	165°C	Fibres

Properties

Mechanical Properties	Standard	Performance	Tolerance
Tensile strength - MD	EN ISO 10319	21 kN/m	-2,7 kN/m
Tensile strength - CMD	EN ISO 10319	21 kN/m	-2,7 kN/m
Elongation at maximum load - MD	EN ISO 10319	50 %	+/-11,5 %
Elongation at maximum load - CMD	EN ISO 10319	55 %	+/-12,7 %
Static puncture resistance (CBR)	EN ISO 12236	3,5 kN	-0,7 kN
Dynamic perforation resistance (cone drop)	EN ISO 13433	15 mm	+3,8 mm
Hydraulic Properties	Standard	Performance	Tolerance
Water permeability normal to the plane (vh50)	EN ISO 11058	60 l/m ² s	-18 l/m ² s
Waterflow in the plane, @20 kPa	EN ISO 12958	4x10 ⁻⁶ m ² /s	-1,2x10 ⁻⁶ m ² /s
Characteristic Opening Size (O90)	EN ISO 12956	80 µm	+/-20,0 µm
Physical Properties	Standard	Performance	Tolerance
Thickness under 2 kPa	EN ISO 9863-1	1,6 mm	+/-0,32 mm
Weight	EN ISO 9864	260 g/m ²	+/-26,0 g/m ²
Length (+/- 1%) x width (+/- 1%)		100 x 5,25 m	
Roll diameter (+/- 10%)		40 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	

Distributors of Geotextile Fabrics, Geotextile Tubes, Gabion Mattress & Agriculture Products.