



SINCE
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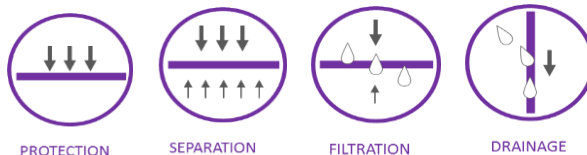
TRADITIONAL QUALITY NONWOVENS

UNTEX HQ PES

Nonwoven needle punched textile



- Characteristic:** Nonwoven textile mechanically bonded by needle punching
Material content: 100 % polyester staple fibre
Color: White or black
Weight: 100 - 1200 g/m²
Maximum width: 6,5 m
Function:



Use: Geotextiles in construction industry, as cleaning textile in various industry sectors and as protection layer in packaging.



Material specification sheet

Date: 22. 5. 2023

Quality Management System ISO 9001, ISO 14001, ISO 45001 and ISO 50001

UNTEX HQ PES

Nonwoven needle punched textile

UNTEX HQ PES	100	150	200	250	300	350	400	500	600	700	800	900	1000	1100	1200		
PHYSICAL PROPERTIES																	
Weight [±10 %] / EN ISO 9864	g/m ²	100	150	200	250	300	350	400	500	600	700	800	900	1000	1100	1200	
Thickness 2 kPa [±15 %] / EN ISO 9863-1	mm	2	2,3	2,7	2,8	3,2	3,6	3,7	4	4,6	5	5,5	6	6,6	7	7,4	
MECHANICAL PROPERTIES																	
Tensile strenght / EN ISO 10319	MD CMD	kN/m	4,1 -1 5,1 -1	6 -1 6,5 -1	8 -1 10 -1	10 -1 12 -1	12 -2 16 -2	14 -2 18 -2	16 -2 20 -3	23 -2 28 -2	26 -3 30 -3	30 -3 38 -3	33 -3 43 -3	36 -3 48 -3	39 -3 53 -3	42 -3 58 -3	45 -3 63 -3
Elongation [±20 %] / EN ISO 10319	MD CMD	%	130 120	110 120	100 110	100 100	100 110	100 110	100 100	100 100	100 100	100 90	100 100	110 110	120 115	120 120	
Resistance to static puncture (CBR test) / EN ISO 12236		kN	0,6 -0,1	0,9 -0,1	1,7 -0,3	1,7 -0,1	2 -0,2	2,4 -0,2	3 -0,2	4 -0,2	4,4 -0,2	5 -0,2	5,4 -0,2	6 -0,2	6,6 -0,2	7,2 -0,2	7,8 -0,2
Dynamic perforation test (cone drop test) / EN ISO 13433		mm	34 +10	19 +4	16 +3	14 +2	12 +2	10 +2	8 +2	6 +1	5 +1	3 +1	1 +1,0	1 +1,0	0 +1,0	0 +1,0	0 +1,0
Pyramid puncture resistance / EN ISO 14574		N			196 -20	196 -20	258,3 -20	258,3 -20	242,2 -30	405,8 -40	405,8 -40	405,8 -40	405,8 -40	405,8 -40	405,8 -40	405,8 -40	405,8 -40
HYDRAULIC PROPERTIES																	
Characteristic opening size O ₉₀ / EN ISO 12956		µm	103 ±15	124 ±15	107 ±20	104 ±15	80,6 ±15	80,6 ±15	75 ±15	71 ±15	71 ±15	71 ±15	79 ±15	79 ±15	77 ±15	77 ±15	64 ±15
Water permeability normal to the plane V _{l,150} / EN ISO 11058		l/m ² ·s	122,8 -6	98 -10	94,9 -16	94,9 -23,3	54,4 -8,2	54,4 -8,2	44,9 -7,7	45,7 -8,7	45,7 -8,7	45,7 -6,4	28,6 -3,7	28,6 -3,7	18 -2,1	18 -2,1	12,3 -1,7
Water permeability in the plane (longitudinal direction) gradient 0,1 / EN ISO 12958	20 kPa 100 kPa 200 kPa	l/m.s								6,13·10 ⁻⁴ 3,25·10 ⁻⁴ 8,2·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵	6,4·10 ⁻⁴ 3,8·10 ⁻⁴ 8,6·10 ⁻⁵
Water permeability in the plane (longitudinal direction) gradient 1 / EN ISO 12958	20 kPa 100 kPa 200 kPa	l/m.s								1,33·10 ⁻² 4,47·10 ⁻³ 3,10·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³	1,34·10 ⁻² 4,59·10 ⁻³ 3,21·10 ⁻³
ENDURANCE																	
Protection efficiency [±10 %] / EN 13719	300 kPa	%					2,31	2,31	2,31	2,31	2,31	2,31	2,31	2,31	2,31	2,31	2,31
Resistance to weathering / EN ISO 12224	It must be covered within 2 weeks after being placed																
Life expectancy	Min. 50 years in natural soils with 4<pH<9 with soil temperature < 25 °C.																
FUNCTION																	
Separation	S		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Filtration	F		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Drainage	D								X	X	X	X	X	X	X	X	X
Reinforcement	R																
Protection	P					X	X	X	X	X	X	X	X	X	X	X	X
CHARACTERISTICS																	
Description	Nonwoven textile mechanically bonded by needle punching																
Material content	100 % polyester staple fibre																
Colour	White, black																
DIMENSION, PACKAGING AND STORAGE																	
Roll width	m	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5	6,5
Roll length	m	50	50	50	50	50	50	50	25	25	25	25	25	25	25	25	25
Packaging	Rolls are packed in PE foil, and according to the requirements can be wind up on paper tubes																
Storage	In covered, clean and dry spaces																

The above technical parameters are average values and serve for general information. The manufacturer reserves the right to change it.