



SINCE
1950

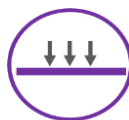
TRADITIONAL QUALITY NONWOVENS

UNTEX HQ PP

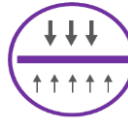
Nonwoven needle punched textile



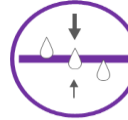
- Characteristic:** Nonwoven textile mechanically bonded by needle punching
Material content: 100 % polypropylen staple fibre
Color: White
Weight: 100 - 1200 g/m²
Maximum width: 6,5 m
Function:



PROTECTION



SEPARATION



FILTRATION



DRAINAGE



REINFORCEMENT

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

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TRADITIONAL QUALITY NONWOVENS

Material specification sheet

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UNTEX HQ PP

Nonwoven needle punched textiles

UNTEX HQ PP	100	130	150	180	200	250	300	350	400	500	600	700	800	900	1000	1100	1200			
PHYSICAL PROPERTIES																				
Weight [±10 %] / EN ISO 9864	g/m ²	100	130	150	180	200	250	300	350	400	500	600	700	800	900	1000	1100	1200		
Thickness 2 kPa [±15 %] / EN ISO 9863-1	mm	1,8	1,9	2,1	2,3	2,5	2,8	3,2	3,5	3,7	4,1	4,6	5,1	5,5	5,9	6,3	6,7	7,1		
MECHANICAL PROPERTIES																				
Tensile strenght / EN ISO 10319	MD CMD	kn/m	8 -1 8 -1	9 -1 9 -1	11 -1 11 -1	13 -1 13 -1	15 -1 15 -1	19 -1 19 -1	24 -1 24 -1	27 -1 27 -1	31 -1 31 -1	40 -2 42 -2	45 -3 53 -3	49 -3 63 -3	53 -3 75 -3	58 -3 84 -3	63 -3 93 -3	68 -3 101 -3	73 -3 109 -3	
Elongation [±20 %] / EN ISO 10319	MD CMD	%	70 80	70 80	70 80	70 80	70 80	80 80	80 80	80 80	90 90	90 90	90 90	100 100	100 100	100 100	110 110	110 110		
Resistance to static puncture (CBR test) / EN ISO 12236		kn	1,4 -0,1	1,7 -0,1	2,0 -0,1	2,2 -0,1	2,5 -0,1	3,1 -0,1	4,1 -0,1	4,3 -0,1	4,9 -0,1	6,2 -0,2	7,8 -0,3	9,3 -0,5	10,5 -0,5	11,5 -0,5	13 -1	14 -1	15 -1	
Dynamic perforation test (cone drop test) / EN ISO 13433		mm	20 +2	17 +2	13 +3	11 +3	10 +2	8 +2	6 +2	4 +2	3 +2	0 +1	0 +0	0 +0	0 +0	0 +0	0 +0	0 +0		
Pyramid puncture resistance / EN ISO 14574		N					207,4 -20	207,4 -20	286 -20	286 -20	286 -20	540,9 -70	540,9 -70	540,9 -70	955,6 -60	1158 -60	1320,6 -60	1320,6 -60	1721,8 -60	
HYDRAULIC PROPERTIES																				
Characteristic opening size O ₉₀ / EN ISO 12956		µm	142 ±15	142 ±15	142 ±15	142 ±15	103 ±15	103 ±15	86,7 ±15	86,7 ±15	86,7 ±15	83 ±15	83 ±15	83 ±15	65 ±10	69 ±10	61 ±10	61 ±10	61,5 ±10	
Water permeability normal to the plane V ₁₅₀ / EN ISO 11058		l/m ² ·s	94,7 -6	94,7 -6	94,7 -6	94,7 -6	67,6 -13,3	67,6 -13,3	41 -8,2	41 -8,2	41 -8,2	40,6 -5	40,6 -5	40,6 -5	17,6 -5	21 -5	17,9 -1,7	17,9 -1,7	17,2 -3,1	
Water permeability in the plane (longitudinal direction) gradient 0,1 / EN ISO 12958	20 kPa 100 kPa 200 kPa	l/m.s	6,20·10 ⁻⁴ 0 0	6,20·10 ⁻⁴ 0 0	6,20·10 ⁻⁴ 0 0	6,20·10 ⁻⁴ 0 0	1,08·10 ⁻³ 3,81·10 ⁻⁴ 0	1,08·10 ⁻³ 3,81·10 ⁻⁴ 0	1,08·10 ⁻³ 3,81·10 ⁻⁴ 0	1,59·10 ⁻³ 5,8·10 ⁻⁴ 1,3·10 ⁻⁴	1,59·10 ⁻³ 5,8·10 ⁻⁴ 1,3·10 ⁻⁴	1,20·10 ⁻³ 4,5·10 ⁻⁴ 4,7·10 ⁻⁴	1,20·10 ⁻³ 4,5·10 ⁻⁴ 4,7·10 ⁻⁴	1,20·10 ⁻³ 4,5·10 ⁻⁴ 4,7·10 ⁻⁴	2,1·10 ⁻³ 9,27·10 ⁻⁴ 6,59·10 ⁻⁴	2,29·10 ⁻³ 7,7·10 ⁻⁴ 3,1·10 ⁻⁴	1,14·10 ⁻³ 6,48·10 ⁻⁴ 3,74·10 ⁻⁴	1,14·10 ⁻³ 6,48·10 ⁻⁴ 3,74·10 ⁻⁴	4,01·10 ⁻³ 2,74·10 ⁻³ 1,95·10 ⁻³	
Water permeability in the plane (longitudinal direction) gradient 1 / EN ISO 12958	20 kPa 100 kPa 200 kPa	l/m.s	8,01·10 ⁻³ 2,68·10 ⁻³ 5,88·10 ⁻⁴	8,01·10 ⁻³ 2,68·10 ⁻³ 5,88·10 ⁻⁴	8,01·10 ⁻³ 2,68·10 ⁻³ 5,88·10 ⁻⁴	8,01·10 ⁻³ 2,68·10 ⁻³ 5,88·10 ⁻⁴	1,27·10 ⁻² 3,18·10 ⁻³ 1,92·10 ⁻³	1,27·10 ⁻² 3,18·10 ⁻³ 1,92·10 ⁻³	1,27·10 ⁻² 3,18·10 ⁻³ 1,92·10 ⁻³	1,73·10 ⁻² 4,34·10 ⁻³ 3,3·10 ⁻³	1,73·10 ⁻² 4,34·10 ⁻³ 3,3·10 ⁻³	1,46·10 ⁻² 5,99·10 ⁻³ 3,63·10 ⁻³	1,46·10 ⁻² 5,99·10 ⁻³ 3,63·10 ⁻³	1,46·10 ⁻² 5,99·10 ⁻³ 3,63·10 ⁻³	2,18·10 ⁻² 8,31·10 ⁻³ 6,19·10 ⁻³	2,36·10 ⁻² 7,14·10 ⁻³ 3,81·10 ⁻³	9,83·10 ⁻³ 4,53·10 ⁻³ 2,53·10 ⁻³	9,83·10 ⁻³ 4,53·10 ⁻³ 2,53·10 ⁻³	2,37·10 ⁻² 1,07·10 ⁻² 8,46·10 ⁻³	
ENDURANCE																				
Resistance to oxidation [±10 %] / EN ISO 13438	MD CMD	%	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	90,90 76,40	
Protection efficiency [±10 %] / EN 13719	300 kPa 600 kPa 900 kPa	%							2,25	2,25	2,25	2,25	2,25	2,25	0,85 1,8 3,74	0,85 1,8 3,74	0,85 1,8 3,74	0,85 1,8 3,74	0,85 1,8 3,74	
Resistance to weathering / EN ISO 12224			Must be covered within 2 weeks after being placed						Must be covered within 1 month after being placed											
Life expectancy			Min. 100 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	X	X	
Filtration	F		X	X	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				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Protection	P								X	X	X	X	X	X	X	X	X	X	X	
CHARACTERISTICS																				
Description			Nonwoven textile mechanically bonded by needle punching																	
Material content			100 % polypropylen staple fibre																	
Color			White																	
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	6,5	
Roll lenght	m		50	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.