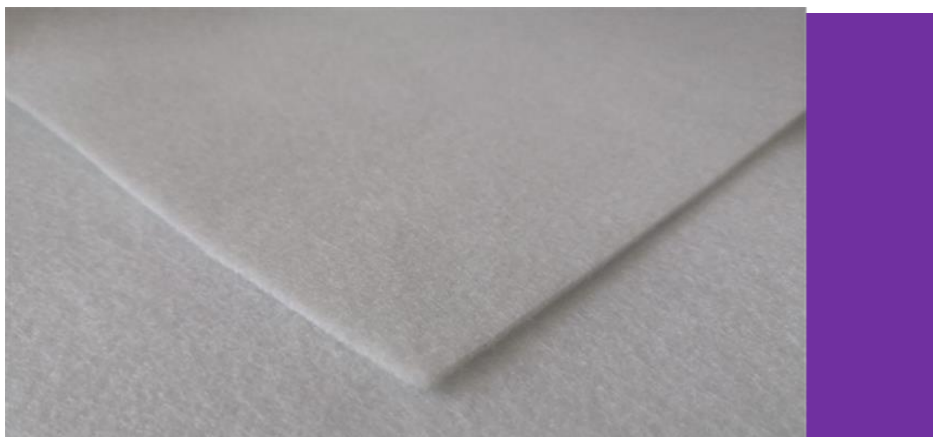




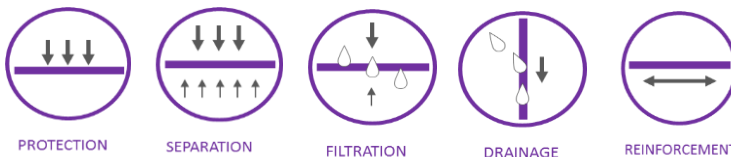
TRADITIONAL QUALITY NONWOVENS

UNTEX HQ PP K Calendered nonwoven geotextile



- Characteristic:** Nonwoven textile mechanically bonded by needle punching and thermally by calender
- Material content:** 100 % polypropylen staple fibre
- Color:** White
- Weight:** 100 - 500 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
Date of Issue : 22.5.2023

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

SINCE
1950

TRADITIONAL QUALITY NONWOVENS

Material Specification

Date of Issue: 22. 5. 2023

UNTEX HQ PP K

Calendered nonwoven geotextile

UNTEX HQ PP K			100	150	180	200	250	270	300	400	500
PHYSICAL PROPERTIES											
Weight [±10 %] / EN ISO 9864	g/m ²		100	150	180	200	250	270	300	400	500
Thickness 2 kPa [±15 %] / EN ISO 9863-1	mm		0,7	0,9	1	1,1	1,4	1,5	1,6	2,2	2,6
MECHANICAL PROPERTIES											
Tensile strenght / EN ISO 10319	MD	kN/m	8 -1	11 -1	14 -1	16 -1	21 -1	21 -1	23 -1	31 -1	42 -1
	CMD		8 -1	11 -1	14 -1	16 -1	20 -1	21 -1	23 -1	31 -1	42 -1
Elongation [±10 %] / EN ISO 10319	MD	%	50	55	65	65	65	65	65	70	70
	CMD		55	65	75	75	75	75	75	80	80
Resistance to static puncture- CBR test / EN ISO 12236	kN		1,3 -0,1	1,8 -0,1	2,1 -0,1	2,6 -0,1	3,2 -0,1	3,3 -0,1	3,7 -0,1	5,5 -0,1	6,7 -0,2
Dynamic perforation test (cone drop test) / EN ISO 13433	mm		30 +2	22 +2	20 +2	15 +2	13 +2	12 +2	8 +2	6 +2	5 +1
Pyramid puncture resistance / EN ISO 14574	N		150,4 -20	150,4 -20	150,4 -20	228 -20	228 -20	228 -20	302,6 -20	468,3 -20	490 -20
HYDRAULIC PROPERTIES											
Characteristic opening size O_{90} / EN ISO 12956	µm		122 ±15	122 ±15	122 ±15	99 ±15	99 ±15	99 ±15	59 ±15	62 ±15	55 ±15
Water permeability normal the plane_VIH50 / EN ISO 11058	to l/m ² ·s		25 -3,6	25 -3,6	25 -2,5	17,3 -2,5	17,3 -2,5	17,3 -1,4	14,6 -2,1	7,7 -1,4	6,7 -1,4
Water permeability in the plane (longitudinal direction) gradient 0,1 [±15 %] / EN ISO 12958	20 kPa	l/m·s	8,11·10 ⁻⁵	8,11·10 ⁻⁵	8,11·10 ⁻⁵	1,58·10 ⁻⁴	1,58·10 ⁻⁴	1,58·10 ⁻⁴	2,28·10 ⁻⁴	1,68·10 ⁻⁴	3,24·10 ⁻⁴
	100 kPa		1,71·10 ⁻⁵	1,71·10 ⁻⁵	1,71·10 ⁻⁵	7,88·10 ⁻⁵	7,88·10 ⁻⁵	7,88·10 ⁻⁵	1,29·10 ⁻⁴	1,18·10 ⁻⁴	1,97·10 ⁻⁴
	200 kPa		5,49·10 ⁻⁶	5,49·10 ⁻⁶	5,49·10 ⁻⁶	6,36·10 ⁻⁵	6,36·10 ⁻⁵	6,36·10 ⁻⁵	1,13·10 ⁻⁴	1,03·10 ⁻⁴	1,66·10 ⁻⁴
Water permeability in the plane (longitudinal direction) gradient 1 [±15 %] / EN ISO 12958	20 kPa	l/m·s	8,51·10 ⁻⁴	8,51·10 ⁻⁴	8,51·10 ⁻⁴	1,57·10 ⁻³	1,57·10 ⁻³	1,57·10 ⁻³	2,35·10 ⁻³	1,76·10 ⁻³	3,41·10 ⁻³
	100 kPa		2,11·10 ⁻⁴	2,11·10 ⁻⁴	2,11·10 ⁻⁴	7,73·10 ⁻⁴	7,73·10 ⁻⁴	7,73·10 ⁻⁴	1,33·10 ⁻³	1,12·10 ⁻³	1,96·10 ⁻³
	200 kPa		8,84·10 ⁻⁵	8,84·10 ⁻⁵	8,84·10 ⁻⁵	6,72·10 ⁻⁴	6,72·10 ⁻⁴	6,72·10 ⁻⁴	1,18·10 ⁻³	1,01·10 ⁻³	1,71·10 ⁻³
ENDURANCE											
Resistance to oxidation [±10 %] / EN ISO 13438	MD	%	90,90	90,90	90,90	90,90	90,90	90,90	84,70	84,70	84,70
	CMD		76,40	76,40	76,40	76,40	76,40	76,40	80,00	80,00	80,00
Protection efficiency [±10 %] / EN 13719	300 kPa	%	1,82 ±1,8	1,82 ±1,8	1,82 ±1,8	1,59 ±1,6	1,59 ±1,6	1,59 ±1,6	2,52 ±2,5	1,56 ±1,6	1,81 ±1,8
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
Filtration	F		X	X	X	X	X	X	X	X	X
Dranaige	D		X	X	X	X	X	X	X	X	X
Reinforcement	R		X	X	X	X	X	X	X	X	X
Protection	P		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
Roll lenght	m		50	50	50	50	50	50	50	50	50
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.