



SINCE  
**1950**

TADDITIONIONAL

QUALITY

**UNTEX HQ PP K**

Calendered nonwoven textile

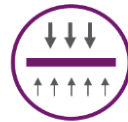
NONWOVENS



- Characteristic:** Needle punched and thermally bonded nonwoven textile
- Material content:** 100 % polypropylen staple fibre
- Colour:** White
- Weight:** 100 - 500 g/m<sup>2</sup>
- Maximum width:** 6 m
- Life expectancy:** 100 years
- Certification:** Management system according to ISO 9001, ISO 14001, ISO 45001 and ISO 50001
- Funktion:**



PROTECTION



SEPARATION

- Use:** As geotextiles in construction industry, as cleaning textile in various industry sectors and as protection layer in packaging.



PACKAGING



INDUSTRY



CONSTRUCTION  
INDUSTRY

**Material specification sheet**

Date: 30. 6. 2021

No: T-018-2

SINCE  
1950

# TRADITIONAL QUALITY NONWOVENS

## UNTEX HQ PP K

Calendered nonwoven textile

UNTEX HQ PP K			100	150	200	250	300	400	500
<b>PHYSICAL PROPERTIES</b>									
Weight [±10 %] / EN ISO 9864	g/m <sup>2</sup>		100	150	200	250	300	400	500
Thickness 2 kPa [±15 %] / EN ISO 9863-1	mm		0,7	0,9	1,1	1,4	1,6	2,2	2,6
<b>MECHANICAL PROPERTIES</b>									
Tensile strenght / EN ISO 10319	MD CMD	kN/m	8 -1 8 -1	11 -1 11 -1	16 -1 16 -1	20 -1 20 -1	23 -1 23 -1	31 -1 31 -1	42 -1 42 -1
Elongation [±10 %] / EN ISO 10319	MD CMD	%	50 55	55 65	65 75	65 75	65 75	70 80	70 80
Resistance to static puncture (CBR test) / EN ISO 12236		kN	1,3 -0,1	1,8 -0,1	2,6 -0,1	3,2 -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	15 +2	13 +2	8 +2	6 +2	5 +1
Pyramid puncture resistance / EN ISO 14574		N	150,4 -20	150,4 -20	228 -20	228 -20	302,6 -20	468,3 -20	490 -20
<b>HYDRAULIC PROPERTIES</b>									
Characteristic opening size O <sub>90</sub> / EN ISO 12956		µm	122 ±15	122 ±15	99 ±15	99 ±15	59 ±15	62 ±15	55 ±15
Water permeability normal to the plane V <sub>I<sub>H50</sub></sub> / EN ISO 11058		l/m <sup>2</sup> ·s	25 -3,6	25 -3,6	17,3 -2,5	17,3 -2,5	14,6 -2,1	7,7 -1,4	6,7 -1,4
Water permeability in the plane (longitudinal direction) gradient 0,1 / EN ISO 12958	20 kPa	l/m.s	8,11·10 <sup>-5</sup>	8,11·10 <sup>-5</sup>	1,58·10 <sup>-4</sup>	1,58·10 <sup>-4</sup>	2,28·10 <sup>-4</sup>	1,68·10 <sup>-4</sup>	3,24·10 <sup>-4</sup>
	100 kPa		1,71·10 <sup>-5</sup>	1,71·10 <sup>-5</sup>	7,88·10 <sup>-5</sup>	7,88·10 <sup>-5</sup>	1,29·10 <sup>-4</sup>	1,18·10 <sup>-4</sup>	1,97·10 <sup>-4</sup>
	200 kPa		5,49·10 <sup>-6</sup>	5,49·10 <sup>-6</sup>	6,36·10 <sup>-5</sup>	6,36·10 <sup>-5</sup>	1,13·10 <sup>-4</sup>	1,03·10 <sup>-4</sup>	1,66·10 <sup>-4</sup>
Water permeability in the plane (longitudinal direction) gradient 1 / EN ISO 12958	20 kPa	l/m.s	8,51·10 <sup>-4</sup>	8,51·10 <sup>-4</sup>	1,57·10 <sup>-3</sup>	1,57·10 <sup>-3</sup>	2,35·10 <sup>-3</sup>	1,76·10 <sup>-3</sup>	3,41·10 <sup>-3</sup>
	100 kPa		2,11·10 <sup>-4</sup>	2,11·10 <sup>-4</sup>	7,73·10 <sup>-4</sup>	7,73·10 <sup>-4</sup>	1,33·10 <sup>-3</sup>	1,12·10 <sup>-3</sup>	1,96·10 <sup>-3</sup>
	200 kPa		8,84·10 <sup>-5</sup>	8,84·10 <sup>-5</sup>	6,72·10 <sup>-4</sup>	6,72·10 <sup>-4</sup>	1,18·10 <sup>-3</sup>	1,01·10 <sup>-3</sup>	1,71·10 <sup>-3</sup>
<b>ENDURANCE</b>									
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	84,70 80,00	84,70 80,00	84,70 80,00
Účinnost ochrany / EN 13719	300 kPa	%	1,82 ±1,8	1,82 ±1,8	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			Musí se zakrýt do 2 týdnů po uložení			Musí se zakrýt do 1 měsíce po uložení			
Life expectancy			Předpokládá se trvanlivost po dobu 100 let v přírodních zeminách s 4<pH<9 při teplotě zeminy <25 °C						
<b>FUNCTION</b>									
Separation	S		X	X	X	X	X	X	X
Filtration	F		X	X	X	X	X	X	X
Drainage	D		X	X	X	X	X	X	X
Reinforcement	R		X	X	X	X	X	X	X
Protection	P		X	X	X	X	X	X	X
<b>CHARACTERISTICS</b>									
Description	Needle punched and thermally bonded nonwoven geotextile								
Material content	100 % polypropylen staple fibre								
Colour	White								
<b>DIMENSION, PACKAGING AND STORAGE</b>									
Roll width	m		6	6	6	6	6	6	6
Roll length	m		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.