



SINCE  
**1950**

TADITIONAL

QUALITY

**UNTEX PES**

Nonwoven needle punched textile

NONWOVENS

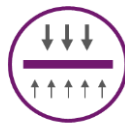


- Characteristic:** Nonwoven textile mechanically bonded by needle punching
- Material content:** Recycled polyester
- Colour:** Various
- Weight:** 150 - 1000 g/m<sup>2</sup>
- Maximum width:** 4
- Certification:** Management system according to standards ISO 9001, ISO 14001, ISO 45001 and ISO 50001

**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: 07. 06. 2019

No: T-004-1

SINCE  
1950

# TRADITIONAL QUALITY NONWOVENS

Material specification sheet

Date: 07. 06. 2019

No: T-004-1

## UNTEX PES

Nonwoven needle punched textile

UNTEX PES	150	200	250	300	350	400	500	600	700	800	900	1000		
<b>PHYSICAL PROPERTIES</b>														
Weight [ $\pm 10\%$ ] / EN ISO 9864	g/m <sup>2</sup>	150	200	250	300	350	400	500	600	700	800	900	1000	
Thickness 2 kPa [ $\pm 15\%$ ] / EN ISO 9863-1	mm	2	2,4	2,7	3,1	3,2	3,3	4	4,1	4,3	4,7	4,9	5,5	
<b>MECHANICAL PROPERTIES</b>														
Tensile strenght / EN ISO 10319	MD CMD	kN/m	2,5 -0,5 3 -0,5	3,1 -0,5 3,8 -0,5	3,3 -0,5 4,2 -0,5	5 -1 6 -1	6 -1 8 -1	9 -2 11 -2	10 -2 12 -2	12 -2 15 -2	15 -2 18 -2	20 -3 23 -3	23 -3 26 -3	26 -3 29 -3
Elongation [ $\pm 20\%$ ] / EN ISO 10319	MD CMD	%	60 60	70 75	70 75	80 80	80 80	80 80	80 80	80 90	80 90	85 90	90 90	
Resistance to static puncture (CBR test) / EN ISO 12236	kN	0,5 -0,1	0,6 -0,1	0,65 -0,1	0,8 -0,1	1,1 -0,1	1,5 -0,2	1,7 -0,2	2,2 -0,2	2,8 -0,2	3,4 -0,2	4,1 -0,2	4,8 -0,2	
Dynamic perforation test (cone drop test) / EN ISO 13433	mm	31 +4	29 +3	23 +2	18 +2	18 +2	16 +2,0	10 +2	8 +2,0	6 +2,0	0 +2	0 +2	0 +2	
<b>HYDRAULIC PROPERTIES</b>														
Characteristic opening size $O_{90}$ / EN ISO 12956	$\mu\text{m}$	81 $\pm 15$	94 $\pm 20$	94 $\pm 15$	74 $\pm 15$	74 $\pm 15$	76 $\pm 15$	76 $\pm 15$	76 $\pm 15$	64 $\pm 15$	64 $\pm 15$	64 $\pm 15$	66 $\pm 15$	
Water permeability normal to the plane $V_{I_{H50}}$ / EN ISO 11058	l/m <sup>2</sup> ·s	48,2	68,9	68,9	50,6	50,6	50,7	50,7	50,7	17	17	17	18,4	
<b>ENDURANCE</b>														
Resistance to weathering / EN ISO 12224	Cover on day of lay down													
Life expectancy	Min. 5 years in natural soils with 4<pH<9 with soil temperature < 25 °C.													
<b>FUNCTION</b>														
Separation	S	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	
Drainage	D													
Reinforcement	R													
Protection	P													
<b>CHARACTERISTICS</b>														
Description	Nonwoven textile mechanically bonded by needle punching													
Material content	100 % recycled polyester													
Colour	Various													
<b>DIMENSION, PACKAGING AND STORAGE</b>														
Roll width	m	4	4	4	4	4	4	4	4	4	4	4	4	
Roll lenght	m	50	50	50	50	50	50	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.