

The products covered by harmonized standards:  
 EN 13249:2016, EN 13251:2016, EN 13252:2016, EN 13253:2016, EN 13255:2016, EN 13257:2016

TECHNICAL CHARACTERISTIC	ENGINEERING SPECIFICATION					TEST METHOD
	TYPE OF GEOTEXTILE					
	HT/150	HT/200	HT/300	HT/400	HT/500	
1	2	3	4	5	6	7
Mas per unit area [g/sq.m] Tolerance +/- 10%	150	200	300	400	500	EN ISO 9864
Thickness [mm] Tolerance +/- 10% (pressure) 2 kPa 20 kPa 200 kPa	2,7 1,5 0,7	3,6 2,3 1,0	4,5 3,1 1,5	4,7 3,5 1,8	5,0 4,0 2,2	EN ISO 9863-1
Tensile strength [kN/m] MD [-0,00 kN/m] CMD [-0,00 kN/m]	5,0 6,0	7,0 15,0	15,0 30,0	20,0 40,0	25,0 45,0	EN ISO 10319
Elongation at maximum load [%] Tolerance ± 20% MD CMD	130 110	130 80	130 80	110 80	95 75	EN ISO 10319
Static puncture resistance [kN] [-0,00 kN] CBR test	1,1	1,9	2,8	3,8	4,8	EN ISO 12236
Dynamic puncture resistance - cone drop test [mm] [+0,00 mm]	10,0	7,0	4,0	3,0	2,0	EN ISO 13433

1	2	3	4	5	6	7
<b>Permeability normal to the plane</b> - Velocity index $V_{I_{H50}}$ [l/ m <sup>2</sup> ×s] [-0,00 l/m <sup>2</sup> ×s]	90	85	70	65	48	EN ISO 11058
<b>In-plane water flow capacity the volumetric flow rate of water per unit width of specimen</b> [l/m·s]  <b>for hydraulic gradient</b> i=0,1 -20 kPa ≥ -100 kPa ≥  <b>for hydraulic gradient</b> i=1,0 -20 kPa ≥ -100 kPa ≥	$1,9 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ] $2,4 \times 10^{-4}$ [-0,0×10 <sup>-4</sup> ]	$1,8 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ] $3,7 \times 10^{-4}$ [-0,0×10 <sup>-4</sup> ]	$1,6 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ] $4,7 \times 10^{-4}$ [-0,0×10 <sup>-4</sup> ]	$2,9 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ] $1,1 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ]	$2,7 \times 10^{-3}$ [-0,0×10 <sup>-3</sup> ] $8,7 \times 10^{-4}$ [-0,0×10 <sup>-4</sup> ]	EN ISO 12958
<b>Opening size</b> 0 <sub>90</sub> [μm]	150 [± 30 μm]	150 [± 30 μm]	85 [± 17 μm]	80 [± 16 μm]	80 [± 16 μm]	EN ISO 12956

Lodz, 25.03.2019