


Technical data sheet

PRODUCT RANGE			AG 150	AG 200	AG 250	AG 300	AG 350	AG 400	AG 500	AG 700	AG 800	AG 1000	AG 1200
	Standard	Unit											
Physical Properties													
Unit weight	EN ISO 9864	g/m ²	150	200	250	300	350	400	500	700	800	1000	1200
Thickness at 2 kPa	EN ISO 9863-1	mm	0,75	1,0	1,2	1,4	1,6	2,0	2,4	2,8	3,5	5,0	5,8
Mechanical Properties													
Tensile strength MD	EN ISO 10319	kN/m	1,0	1,0	1,5	2,0	2,5	3,0	3,0	3,5	4,0	5,0	6,0
Tensile strength CMD	EN ISO 10319	kN/m	1,0	1,0	1,5	2,0	2,5	3,0	3,0	3,5	4,0	5,0	6,0
Elongation MD	EN ISO 10319	%	80	80	60	60	60	70	70	80	90	90	90
Elongation CMD	EN ISO 10319	%	90	90	80	80	70	70	70	80	90	90	90
Static puncture (CBR test)	EN ISO 12236	N	250	250	300	500	550	600	600	650	700	800	1000
Dynamic perforation (Cone drop)	EN 918	mm	45	45	40	30	25	20	18	13	10	5	0
Hydraulic Properties													
Velocity index	EN ISO 11058	m/s	0,100	0,098	0,070	0,058	0,050	0,046	0,035	0,030	0,020	0,015	0,010
Permeability normal to the plane	EN ISO 11058	l/(s m ²)	100	98	70	58	50	46	35	30	20	15	10
Permittivity	EN ISO 11058	s ⁻¹	2,0	1,96	1,40	1,16	1,00	0,92	0,70	0,60	0,40	0,30	0,20
Transmissivity under 20 kPa	EN ISO 12958	m ² /s x 10 ⁻⁶	-	-	-	2,0	2,0	2,0	2,0	3,0	3,5	5,0	6,0
Water flow in the plane (20 kpa, i=1)	EN ISO 12958	l/(m h)	-	-	-	7,2	7,2	7,2	7,2	10,8	12,6	18,0	21,6
Characteristic opening size O90	EN ISO 12956	micron	100	100	90	80	80	70	70	70	70	70	70

Durability	<p>To be covered in 1 day after installation. Predicted to be durable for more than 5 years in natural soils with 4<ph<9 and soil temperature < 25 °C</p>
<p>Geotextiles for Civil Engineering</p> <p style="color: red;">GEO RPES AG geotextiles can be used in building and construction works for separation, filtration, drainage, protection.</p>	<p>Quality Management:</p> <p>Geo&Tex 2000 spa production control is certified CE-marking level 2+</p> <div style="font-size: 2em; font-weight: bold; margin: 10px 0;">  </div> <p>0799-CPD-15</p> <p>The Quality System is certified according to international quality management system EN ISO 9001:2000.</p>

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

GEO RPES AG needle-punched polyester geotextile, white colour

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Tolerances

PRODUCT RANGE			AG 150	AG 200	AG 250	AG 300	AG 350	AG 400	AG 500	AG 700	AG 800	AG 1000	AG 1200
Standard	Unit												
Physical Properties													
Unit weight	EN ISO 9864	g/m ²	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%
Thickness at 2 kPa	EN ISO 9863-1	mm	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%	± 20%
Mechanical Properties													
Tensile strength MD	EN ISO 10319	kN/m	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,6	- 0,8	- 1,0	- 1,5
Tensile strength CMD	EN ISO 10319	kN/m	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,5	- 0,6	- 0,8	- 1,0	- 1,5
Elongation MD	EN ISO 10319	%	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20
Elongation CMD	EN ISO 10319	%	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20
Static puncture (CBR test)	EN ISO 12236	N	- 100	- 100	- 100	- 150	- 180	- 200	- 200	- 200	- 220	- 240	- 300
Dynamic perforation (Cone drop)	EN 918	mm	+ 10,0	+ 10,0	+ 8,0	+ 6,0	+ 5,5	+ 5,0	+ 3,6	+ 2,6	+ 2,0	+ 1,5	-
Hydraulic Properties													
Velocity index	EN ISO 11058	m/s	- 0,030	- 0,026	- 0,020	- 0,017	- 0,017	- 0,017	- 0,010	- 0,010	- 0,006	- 0,005	- 0,003
Permeability normal to the plane	EN ISO 11058	l/(s m ²)	- 30	- 26	- 20	- 17	- 17	- 17	- 10,0	- 10,0	- 6,0	- 5,0	- 3,0
Permittivity	EN ISO 11058	s ⁻¹	- 0,60	- 0,52	- 0,40	- 0,34	- 0,34	0,34	- 0,2	- 0,2	- 0,12	- 0,10	- 0,06
Transmissivity under 20 kPa	EN ISO 12958	m ² /s x 10 ⁻⁶	-	-	-	- 0,6	- 0,6	- 0,6	- 0,6	- 0,9	- 1,1	- 1,5	- 2,0
Water flow in the plane (20 kPa, i=1)	EN ISO 12958	l/(m h)	-	-	-	- 2,2	- 2,2	2,2	- 2,2	- 3,2	- 4,0	- 5,4	- 7,2
Characteristic opening size O90	EN ISO 12956	micron	± 30	± 30	± 30	± 30	± 30	± 30	± 30	± 30	± 30	± 30	± 30

Above tolerance values correspond to a confidence level of 95% according to European harmonized standards EN 13249-EN 13257 and EN 13256

STANDARD DIMENSIONS			AG 150	AG 200	AG 250	AG 300	AG 350	AG 400	AG 500	AG 700	AG 800	AG 1000	AG 1200
Width			Standard width m 6 – 5 – 3 – 2 – 1 for all types										
Length	m		100	100	90	80	70	60	50	35	30	25	25
Roll diameter	cm		35	38	40	40	40	40	40	40	40	38	40

LOADING CAPACITY			AG 150	AG 200	AG 250	AG 300	AG 350	AG 400	AG 500	AG 700	AG 800	AG 1000	AG 1200
Rolls per truck staple	n		52	42	39	39	39	39	39	39	39	42	39
Quantity per full truck m 12	m ²		62.400	50.400	42.120	37.440	32.760	28.080	23.400	16.380	14.040	12.600	11.700



Non wovens