

Product overview

CATALOGUE



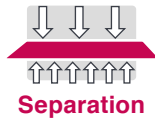
Edilfloor

nonwoven geotextiles

What are they ?

Nonwoven geotextiles are synthetic textile fabrics made of fibers or yarns randomly orientated, mechanically and/or thermally treated, made of polyester or polypropylene, with high mechanical and durability performances.

Main functions



Separation

the aim of the separation function is keeping two soils with different granulometric composition separated, without preventing water circulation. In the construction of roads and paved areas, when the geotextile is placed between the subgrade and the filling material, it prevents the contamination between the layers.



Filtration

the geotextile acts as a filter preventing the migration of the fine particles of the subgrade and allowing the water to flow out through the surface of the geotextile itself.



Protection

the geotextile protects the geomembranes against mechanical punctures in all the waterproofing systems as tunnels, landfills, ponds, flat roofs.



chips



staple fibers



nonwoven geotextiles

they can be used as:

Separation layer

in the construction of road, railways, foundations and paved areas.

Separation and filtration layer

in the construction of drainage trenches

Protection layer

on top of geomembranes in the construction of landfills, tunnels, reservoirs, artificial lakes, ponds

Geodren® PPST

separation

CE
 1213-CPD-3269

THE NONWOVEN GEOTEXTILE IN HIGH TENACITY POLYPROPYLENE FOR FILTRATION, SEPARATION, PROTECTION AND DRAINAGE



Geodren PPST is a nonwoven geotextile, needlepunched and calandered, made of synthetic high tenacity fibers of white polypropylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	70	90	100	110	120	130	150	180	200	230	250	280	300
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	300	200	200	180	160	150	150	120	100	90	90	80	80

* width depends on the mean of transport: container or truck.

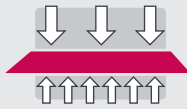
OTHER SIZES

The standard production width is 2/3/6 m.

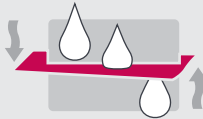
Other widths are available by sending a specific request to our sales offices. Every size not listed in the table above is available within 10 days (plus transport delivery time). For every further details, please contact our sales team or our distributors/agents network.



FUNCTIONS



SEPARATION



FILTRATION



PROTECTION



DRAINAGE

- S - Geodren PPST acts like an anti-contamination system between the different layers of soil
- F - Geodren PPST acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through
- P - Geodren PPST protects other materials from punctures or mechanical damages.
- D - Geodren PPST acts as a drainage system of rainwater or groundwater

TECHNICAL SPECIFICATION

POLYMER: Polypropylene UV treated

SPECIFIC WEIGHT: 0.91 kg/dm³

PROCESS: Needle-punched and calandered

COLOUR: White

MECHANICAL PROPERTIES

Type		70	90	100	110	120	130	150	180	200	230	250	280	300	
Tensile strength [EN ISO 10319]	MD	kN/m	3,2	6	7	8	9	10	12	14	16	18	20	23	25
	CMD	kN/m	3,5	6	7	8	9	10	12	14	16	18	20	23	25
Elongation at maximum load [EN ISO 10319]	MD	%	55	55	55	55	55	55	60	60	65	65	65	65	
	CMD	%	60	60	60	60	60	60	65	65	70	70	70	70	
Energy absorption index [EN ISO 10318]		kJ/m ²	1,0	1,7	2,0	2,3	2,6	2,9	3,5	4,4	5	6,1	6,8	7,8	8,4
Static puncture res. CBR [EN ISO 12236]		kN	0,7	0,9	1,2	1,3	1,5	1,7	1,9	2,2	2,5	2,7	3,0	3,5	4,0
Dynamic puncture res. [EN ISO 13433]		mm	>50	44	38	34	32	30	26	22	20	16	14	12	10
Pyramidal puncture res. [EN 14574]		N	-	-	-	-	-	-	-	200	220	280	320	330	

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	130	130	125	120	115	110	100	95	90	80	75	70	65
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	0,8	0,8	0,8	0,8	0,8	0,8	1,6	1,6	2,1	2,1	2,3	2,3	2,5
Opening size (O ₉₀) [EN ISO 12956]	µm	120	120	120	110	110	100	90	90	80	70	60	50	50

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	70	90	100	110	120	130	150	180	200	230	250	280	300
Thickness (2kPa) [EN ISO 9863-1]	mm	0,4	0,6	0,65	0,7	0,8	0,9	1	1,2	1,3	1,4	1,5	1,55	1,6

DURABILITY PROPERTIES

To be covered within 30 days from the installation. Forecast minimum durability of 25 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® PPST

protection



1213-CPD-3269

THE NONWOVEN GEOTEXTILE IN HIGH TENACITY POLYPROPYLENE FOR FILTRATION, SEPARATION, PROTECTION AND DRAINAGE



Geodren PPST is a nonwoven geotextile, needlepunched and calandered, made of synthetic high tenacity fibers of white polypropylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	320	350	380	400	450	500	600	700	800	1000	1200	1500	2000
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	80	70	70	65	55	50	40	35	30	30	25	25	20

* width depends on the mean of transport: container or truck.

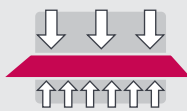
OTHER SIZES

The standard production width is 2/3/6 m.

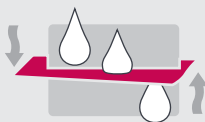
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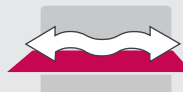
FUNCTIONS



SEPARATION



FILTRATION



PROTECTION



DRAINAGE

- S - Geodren PPST acts like an anti-contamination system between the different layers of soil
- F - Geodren PPST acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through
- P - Geodren PPST protects other materials from punctures or mechanical damages.
- D - Geodren PPST acts as a drainage system of rainwater or groundwater

TECHNICAL SPECIFICATION

POLYMER: Polypropylene UV treated

SPECIFIC WEIGHT: 0.91 kg/dm³

PROCESS: Needlepunching and calandering

COLOUR: White

MECHANICAL PROPERTIES

Type			320	350	380	400	450	500	600	700	800	1000	1200	1500	2000
Tensile strength [EN ISO 10319]	MD	kN/m	25	27	28	30	32	35	40	45	50	60	63	73	75
	CMD	kN/m	27	30	32	34	36	40	50	65	80	90	105	140	155
Elongation at maximum load [EN ISO 10319]	MD	%	70	70	70	70	80	80	80	80	80	80	80	80	80
	CMD	%	70	70	70	70	80	80	80	80	80	80	80	80	80
Energy absorption index [EN ISO 10318]		kJ/m ²	9,1	10	10,5	11,2	13,6	15	18	22	26	30	33,6	42,6	46
Static puncture res. CBR [EN ISO 12236]		kN	4,2	4,5	5	5,5	6	6,5	8	9	10	13	14	18	20
Dynamic puncture res. [EN ISO 13433]		mm	10	8	7	6	6	4	2	1	0	0	0	0	0
Pyramidal puncture res. [EN 14574]		N	335	340	350	350	400	500	700	900	1000	1300	1600	2200	2200

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	60	50	40	35	30	30	25	20	20	15	15	10	5
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	2,5	2,7	2,8	3,2	4	5	7,8	8	8,5	9	9	9	7
Opening size (O ₉₀) [EN ISO 12956]	µm	50	50	50	50	50	50	50	50	40	40	40	40	20

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	320	350	380	400	450	500	600	700	800	1000	1200	1500	2000
Thickness (2kPa) [EN ISO 9863-1]	mm	1,65	1,8	2,2	2,5	2,65	3	4	5	5,5	6,5	7	7,5	10

DURABILITY PROPERTIES

To be covered within 30 days from the installation. Forecast minimum durability of 25 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® NorGeoSpec

CE
1213-CPD-4209

THE NONWOVEN GEOTEXTILE IN HIGH TENACITY POLYPROPYLENE FOR FILTRATION, SEPARATION AND PROTECTION.



NorGeoSpec

Geodren NGS is a nonwoven geotextile, needlepunched and calandered, made of synthetic high tenacity fibers of white polypropylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE and NGS Scandinavian marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	N1	N2	N3	N4	N5
Rolls width (m)	5/6	5/6	5/6	5/6	5/6
Rolls length (m)	160	110	110	100	75

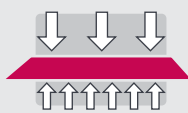
OTHER SIZES

The standard production width is 2/3/6 m.

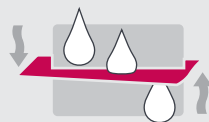
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FUNCTIONS



SEPARATION



FILTRATION



PROTECTION

S - Geodren NGS acts like an anti-contamination system between the different layers of soil

F - Geodren NGS acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through

P - Geodren NGS protects other materials from punctures or mechanical damages.

TECHNICAL SPECIFICATION

POLYMER: Polypropylene UV treated

SPECIFIC WEIGHT: 0.91 kg/dm³

PROCESS: Needlepunching and calandering

COLOUR: White

MECHANICAL PROPERTIES

Type			N1	N2	N3	N4	N5
Certificate n.			0407-QC-1388	0407-QC-1389	0407-QC-1390	0407-QC-1391	0407-QC-1392
Tensile strength [EN ISO 10319]	MD	kN/m	6,6	10,5	16	22	28
	CMD	kN/m	6,8	11,8	17,5	22,5	30
Elongation at maximum load [EN ISO 10319]	MD	%	45	50	50	55	60
	CMD	%	45	50	50	55	60
Energy absorption index [EN ISO 10318]		kJ/m ²	1,5	2,8	4,2	6,1	8,7
Static puncture res. CBR [EN ISO 12236]		kN	0,9	1,6	2,3	3,0	4,8
Dynamic puncture res. [EN ISO 13433]		mm	35	30	20	16	10

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	110	80	60	40	25
Opening size (O ₉₀) [EN ISO 12956]	μm	90	90	60	55	50

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	90	135	190	250	350
Thickness (2kPa) [EN ISO 9863-1]	mm	0,7	0,8	1,2	1,4	1,9

DURABILITY PROPERTIES

To be covered within 30 days from the installation. Forecast minimum durability of 25 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® PPEXT

CE
1213-CPD-3547

THE NONWOVEN GEOTEXTILE IN POLYPROPYLENE STAPLES FOR FILTRATION, SEPARATION AND PROTECTION



Geodren PPEXT is a nonwoven geotextile, needlepunched and calandered, made of synthetic fibers of white polypropylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	200	160	150	100	90	50	65	50	40	30	30	25	25

* width depends on the mean of transport: container or truck.

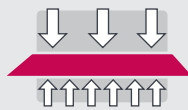
OTHER SIZES

The standard production width is 2/3/6 m.

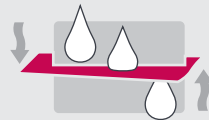
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FUNCTIONS



SEPARATION



FILTRATION



PROTECTION

S - Geodren PPEXT acts like an anti-contamination system between the different layers of soil

F - Geodren PPEXT acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through

P - Geodren PPEXT protects other materials from punctures or mechanical damages.

TECHNICAL SPECIFICATION

POLYMER: Polypropylene

SPECIFIC WEIGHT: 0.91 kg/dm³

PROCESS: Needle punching and calandering

COLOUR: White

MECHANICAL PROPERTIES

Type			100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Tensile strength [EN ISO 10319]	MD	kN/m	3	3,4	4	5	8	10	14	18	24	29	32	34	37
	CMD	kN/m	3,5	3,9	4,5	7	10	14	19	26	32	43	50	53	57
Elongation at maximum load [EN ISO 10319]	MD	%	70	70	70	80	80	80	80	85	85	90	95	95	95
	CMD	%	70	70	70	85	85	85	85	90	90	95	100	100	100
Energy absorption index [EN ISO 10318]		kJ/m ²	1,1	1,3	1,5	2,5	3,7	5	6,8	9,6	12,3	16,7	20	21,2	22,9
Static puncture res. CBR [EN ISO 12236]		kN	0,6	0,8	1	1,2	1,5	2	2,8	3,8	4,8	5,8	7,2	9	12
Dynamic puncture res. [EN ISO 13433]		mm	> 50	36	22	20	16	13	9	6	4	2	0	0	0

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	110	100	80	70	50	35	25	20	20	20	20	20	20	20
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	0,6	0,8	1,2	1,8	2	2,2	2,6	3,5	4,5	5,3	6	6,3	7	
Opening size (O ₉₀) [EN ISO 12956]	µm	90	90	80	70	60	55	50	50	45	45	40	40	40	40

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	100	120	150	200	250	300	400	500	600	800	1000	1200	1500
Thickness (2kPa) [EN ISO 9863-1]	mm	0,7	0,8	1	1,3	1,6	1,8	2,5	3,3	3,6	4,4	5,5	7	8,5

DURABILITY PROPERTIES

To be covered within 1 day from the installation. Forecast minimum durability of 5 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® PPT



THE NONWOVEN GEOTEXTILE IN POLYPROPYLENE STAPLES FOR FILTRATION, SEPARATION AND PROTECTION



Geodren PPT is a nonwoven geotextile, needlepunched and calandered, made of synthetic polypropylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	150	100	90	80	70	65	50	40	35	30	30	25	25

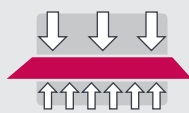
* width depends on the mean of transport: container or truck.

OTHER SIZES

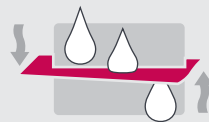
The standard production width is 2/3/6 m. Other widths are available by sending a specific request to our sales offices. Every size not listed in the table above is available within 10 days (plus transport delivery time). For every further details, please contact our sales team or our distributors/agents network.



FUNCTIONS



SEPARATION



FILTRATION



PROTECTION

S - Geodren PPT acts like an anti-contamination system between the different layers of soil

F - Geodren PPT acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through

P - Geodren PPT protects other materials from punctures or mechanical damages.

TECHNICAL SPECIFICATION

POLYMER: Polypropylene

SPECIFIC WEIGHT: 0.91 kg/dm³

PROCESS: Needlepunching and calandering

COLOUR: Coloured

MECHANICAL PROPERTIES

Type			150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Tensile strength [EN ISO 10319]	MD	kN/m	2,0	2,5	4,0	5,0	6,0	7,0	9,0	12	14	16	20	21	24
	CMD	kN/m	2,5	3	4,5	6	7	8	10	13	15	17	22	24	30
Elongation at maximum load [EN ISO 10319]	MD	%	70	70	70	70	70	70	80	80	80	80	80	80	80
	CMD	%	70	70	70	70	70	70	80	80	80	80	80	80	80
Energy absorption index [EN ISO 10318]		kJ/m ²	0,8	1,0	1,5	1,9	2,3	2,6	3,8	5	5,8	6,6	8,4	9	10,8
Static puncture res. CBR [EN ISO 12236]		kN	0,3	0,5	0,8	1	1,2	1,4	1,8	2,2	2,5	3	4	5	6,5
Dynamic puncture res. [EN ISO 13433]		mm	>50	40	30	26	22	18	10	6	4	2	1	1	0

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	80	60	60	50	50	40	30	30	30	20	10	10	10
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	1,6	2,1	2,3	2,7	2,7	3,2	5,0	7,8	8	8,5	9	9	9
Opening size (O ₉₀) [EN ISO 12956]	µm	100	90	90	80	80	70	60	50	50	40	40	40	40

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Thickness (2kPa) [EN ISO 9863-1]	mm	1,2	1,6	1,8	2	2,2	2,5	3	3,5	3,8	4	5	5,5	7,5

DURABILITY PROPERTIES

To be covered within 1 day from the installation. Forecast minimum durability of 5 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® PEIT

CE
1213-CPD-3275

THE NONWOVEN GEOTEXTILE IN POLYESTER FOR FILTRATION, SEPARATION AND PROTECTION



Geodren PEIT is a nonwoven geotextile, needlepunched and calandered, made of synthetic polyester. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	150	100	90	80	70	65	50	40	35	30	30	25	25

* width depends on the mean of transport: container or truck.

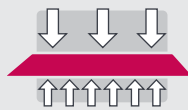
OTHER SIZES

The standard production width is 2/3/6 m.

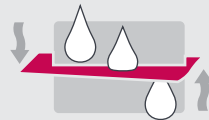
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FUNCTIONS



SEPARATION



FILTRATION



PROTECTION

S - Geodren PEIT acts like an anti-contamination system between the different layers of soil

F - Geodren PEIT acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through

P - Geodren PEIT protects other materials from punctures or mechanical damages.

TECHNICAL SPECIFICATION

POLYMER: Polyester

SPECIFIC WEIGHT: 1.38 kg/dm³

PROCESS: Needlepunching and calandering

COLOUR: White

MECHANICAL PROPERTIES

Type		150	200	250	300	350	400	500	600	700	800	1000	1200	1500	
Tensile strength [EN ISO 10319]	MD	kN/m	1,2	1,8	2	2,5	2,8	3,2	4,2	5,5	6	6,5	7,5	13	20
	CMD	kN/m	1,2	1,8	2	2,7	3,2	4	5,2	7,5	8	9	10,5	16	25
Elongation at maximum load [EN ISO 10319]	MD	%	50	50	50	50	50	50	60	70	70	80	80	80	80
	CMD	%	60	60	60	60	60	60	70	80	80	90	90	90	90
Energy absorption index [EN ISO 10318]		kJ/m ²	0,3	0,5	0,6	0,7	0,8	1	1,5	2,4	2,6	3,3	3,8	6,2	9,6
Static puncture res. CBR [EN ISO 12236]		kN	0,2	0,3	0,4	0,5	0,6	0,7	0,8	1,2	1,4	1,8	2,2	2,8	4
Dynamic puncture res. [EN ISO 13433]		mm	>50	>50	45	40	30	20	16	6	2	2	0	0	0

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	110	100	80	60	50	40	30	25	25	20	20	20	20
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	1,6	2,1	2,3	2,7	3	3,2	5	7	7	8	9	9	9
Opening size (O ₉₀) [EN ISO 12956]	µm	65	60	55	55	55	45	45	35	35	35	30	30	30

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Thickness (2kPa) [EN ISO 9863-1]	mm	0,9	1,1	1,3	1,6	1,75	1,9	2,2	2,8	3	3,5	4	4,5	6

DURABILITY PROPERTIES

To be covered within 1 day from the installation. Forecast minimum durability of 5 years in natural soil with 4<pH<9 and soil temperature <25°C.

Geodren® PECT



THE NONWOVEN GEOTEXTILE IN POLYESTER FOR FILTRATION, SEPARATION AND PROTECTION



Geodren PECT is a nonwoven geotextile, needlepunched and calandered, made of synthetic polyester. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Rolls width (m)	5,90 - 6,00 *												
Rolls length (m)	150	100	90	50	70	65	50	40	35	30	30	25	25

* width depends on the mean of transport: container or truck.

OTHER SIZES

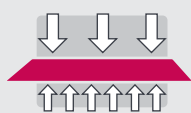
The standard production width is 2/3/6 m. Other widths are available by sending a specific request to our sales offices. Every size not listed in the table above is available within 10 days (plus transport delivery time). For every further details, please contact our sales team or our distributors/agents network.



RESERVOIRS AND DAMS

In these applications, Geodren is used to protect the synthetic geomembrane; installed on the basement it protects the geomembrane from the puncture action of any sharp materials in the soil and acts as an excellent work surface.

FUNCTIONS



SEPARATION



FILTRATION



PROTECTION

S - Geodren PECT acts like an anti-contamination system between the different layers of soil
 F - Geodren PECT acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through
 P - Geodren PECT protects other materials from punctures or mechanical damages.

TECHNICAL SPECIFICATION

POLYMER: Polyester SPECIFIC WEIGHT: 1.38 kg/dm³ PROCESS: Needlepunching and calandering COLOUR: Coloured

MECHANICAL PROPERTIES

Type		150	200	250	300	350	400	500	600	700	800	1000	1200	1500	
Tensile strength [EN ISO 10319]	MD	kN/m	1	1,6	2	2,4	2,8	3,2	4	5,4	6,7	8	10	12	15
	CMD	kN/m	1	1,6	2,1	2,5	3	3,4	5	7,4	9	10,5	13,5	15	20
Elongation at maximum load [EN ISO 10319]	MD	%	50	50	50	50	50	50	60	60	70	70	80	80	90
	CMD	%	60	60	60	60	60	60	60	60	70	70	80	80	90
Energy absorption index [EN ISO 10318]		kJ/m ²	0,3	0,4	0,6	0,7	0,8	0,9	1,4	1,9	2,7	3,2	4,7	5,4	7,9
Static puncture res. CBR [EN ISO 12236]		kN	0,2	0,3	0,4	0,5	0,6	0,8	1,2	1,8	2,2	2,6	4,2	5	6
Dynamic puncture res. [EN ISO 13433]		mm	> 50	46	40	36	32	24	14	10	8	6	2	2	0

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	90	80	70	60	60	50	30	30	25	20	10	10	10
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	1,6	2,1	2,3	2,7	3	3,2	5	7	7	8	9	9	9
Opening size (O ₉₀) [EN ISO 12956]	µm	65	60	55	55	55	45	45	35	35	35	30	30	20

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	150	200	250	300	350	400	500	600	700	800	1000	1200	1500
Thickness (2kPa) [EN ISO 9863-1]	mm	1	1,2	1,4	1,6	1,8	2	2,3	2,6	2,9	3,3	4,0	4,5	6,4

DURABILITY PROPERTIES

To be covered within 1 day from the installation. Forecast minimum durability of 5 years in natural soil with 4<pH<9 and soil temperature <25°C.

Densitex[®] HDPE

CE
1213-CPD-4207

THE NONWOVEN GEOTEXTILE IN POLYETHYLENE FOR FILTRATION, SEPARATION, PROTECTION AND DRAINAGE



Densitex HDPE is a nonwoven needlepunched geotextile, made of synthetic high density polyethylene. Its quality is regularly tested and it is manufactured according to ISO 9001/2008 standard; it also fulfils the safety requirements of CE marking regulations.

APPLICATION EXAMPLE



AVAILABLE SIZES

Type	400	500	600	800	1000	1200	1500
Rolls width (m)	5,90 - 6,00 *						
Rolls length (m)	65	50	40	40	25	25	25

* width depends on the mean of transport: container or truck.

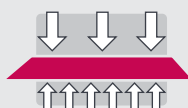
OTHER SIZES

The standard production width is 2/3/6 m.

Other widths are available by sending a specific request to our sales offices. Every size not listed in the table above is available within 10 days (plus transport delivery time). For every further details, please contact our sales team or our distributors/agents network.



FUNCTIONS



SEPARATION



FILTRATION



PROTECTION



DRAINAGE

S - Densitex HDPE acts like an anti-contamination system between the different layers of soil
 F - Densitex HDPE acts like a filter, avoiding erosion of the upper layer and letting the rainwater flow freely through
 P - Densitex HDPE protects other materials from punctures or mechanical damages.
 D - Densitex HDPE acts as a drainage system of rainwater or groundwater

TECHNICAL SPECIFICATION

POLYMER: High density polyethylene

SPECIFIC WEIGHT: 0,93 kg/dm³

PROCESS: Needlepunched

COLOUR: Black

MECHANICAL PROPERTIES

Type			400	500	600	800	1000	1200	1500
Tensile strength [EN ISO 10319]	MD	kN/m	10	12	15	20	25	28	45
	CMD	kN/m	15	18	20	25	30	35	50
Elongation at maximum load [EN ISO 10319]	MD	%	120	120	120	120	120	120	120
	CMD	%	120	120	120	120	120	120	120
Energy absorption index [EN ISO 10318]		kJ/m ²	7,5	9	10,5	13,5	16,5	18,9	28,5
Static puncture res. CBR [EN ISO 12236]		kN	2	2,5	3	4	5	6	9
Dynamic puncture res. [EN ISO 13433]		mm	10	9	8	6	4	0	0

HYDRAULIC PROPERTIES

Velocity index [EN ISO 11058]	mm/s	25	25	25	25	20	20	15
In plane flow capacity [EN ISO 12958]	10 ⁻³ l/ms	3,2	5,0	7,8	8,5	9	9	9
Opening size (O ₉₀) [EN ISO 12956]	µm	50	50	50	40	40	40	40

PHYSICAL PROPERTIES

Mass per unit area [EN ISO 9864]	g/m ²	400	500	600	800	1000	1200	1500
Thickness (2kPa) [EN ISO 9863-1]	mm	3	3,6	4,2	5,5	6,5	7,5	8,5

DURABILITY PROPERTIES

To be covered within 30 days from the installation. Forecast minimum durability of 25 years in natural soil with 4<pH<9 and soil temperature <25°C.



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TWO BRANDS
ONE FAMILY