

PRODUCT SPECIFICATIONS

GEOLON®



Woven Polyethylene Geoproducts with loops

		GEOLON® PE 180L	GEOLON® PE 525L	GEOLON® PE 1000L	STANDARD
CONSTRUCTION					
Construction type		woven	woven	woven	
Yarn type length direction		monofil	monofil	monofil	
Yarn type cross direction		split fibre	monofil	monofil	
Colour		black	black	black	
MECHANICAL PROPERTIES					
Length direction:					
Nominal tensile strength	kN/m	40	40	37	EN-ISO 10319
Elongation at nominal strength	%	24	25	32	EN-ISO 10319
Cross direction:					
Nominal tensile strength	kN/m	50	35	32	EN-ISO 10319
Elongation at nominal strength	%	24	25	25	EN-ISO 10319
Static puncture (CBR):					
Push-through force	kN	5	5	3,5	EN-ISO 12236
Push-through displacement	mm	50	50	45	EN-ISO 12236
Dynamic perforation (Cone drop)	mm	9	12	12	EN 918
Tensile strength loops	kN	1,5	1,5	1,5	Ten Cate Nicolon
HYDRAULIC AND FILTER PROPERTIES					
Water flow at $\Delta h = 100$ mm	litre/m ² s	40	500	500	NEN 5167
Water head at $v = 10$ mm/s	mm	10	7	7	NEN 5167
Permittivity Ψ_s	1/s	1	1,5	1,5	NEN 5167
Water permeability	m/s	0,025	0,300	0,350	EN-ISO 11058
Characteristic pore size O_{90} (dry)	micron	180	525	1000	NEN 5168
Characteristic opening size O_{90}	micron	170	350	600	EN-ISO 12956
DURABILITY					
Ultra Violet resistance:					
Fluorescent test (50 MJ/m ²)	U.T.S.	>90%	>90%	>90%	ENV 12224
Classification	class	D	D	D	ISO 4892-2
Thermo-oxidation resistance	class	B	B	B	NEN 5132
PHYSICAL PROPERTIES					
Mass per unit area (calculated)	g/m ²	250	195	200	EN 965
Thickness (2 kN/m ² pressure)	mm	0,6	0,7	0,8	EN 964-1
Loop grid	m x m	0,5 x 0,5	0,5 x 0,5	1,0 x 0,5	
Roll width	m	5,05	5,05	5,05	
Roll length	m	200	200	200	
Roll diameter	m	0,45	0,36	0,36	
Roll weight	kg	265	210	215	
Ten Cate Nicolon code		392	373	447	

The technical data are obtained from in- and external test procedures.
The above listed geotextiles can be supplied in prefabricated panels.

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Subject to changes. Previously issued data are no longer valid.

