

Drefon S

Nonwoven Geotextile 100% virgin high tenacity polypropylene fibres UV stabilized, mechanically bonded by needle-punching without any chemical or thermic treatment

Essential characteristics	Standard	Unit	S 400	S 450	S 500	S 550	S 600	S 650	S 700	S 800	S 900	S 1000	S 1200	S 1500	S 1600	S 1800	S 2000
Areic mass	EN ISO 9864	g/m ²	400	450	500	550	600	650	700	800	900	1000	1200	1500	1600	1800	2000
Thickness under	2 kPa		3,2	3,5	4,0	4,4	5,0	5,2	5,5	6,0	6,7	7,5	8,0	10,0	10,5	12,0	13,0
	20 kPa EN ISO 9863-1	mm	2,5	2,8	3,0	3,2	3,6	3,8	4,1	4,6	5,1	5,7	6,7	8,5	8,5	10,0	11,3
	200 kPa		1,3	1,6	1,8	2,0	2,2	2,4	2,6	3,0	3,4	3,9	4,7	6,5	6,5	7,5	8,6
Tensile strength	CMD		31,5	36,0	38,0	43,0	50,0	55,0	60,4	64,0	66,0	70,0	80,0	97,4	100,0	100,0	125,0
	Tolerance		-3,1	-3,0	-4,5	-3,7	-6,0	-6,0	-7,4	-8,0	-8,0	-6,5	-8,0	-12,6	-11,0	-10,0	-15,0
	EN ISO 10319	kN/m	29,0	33,0	36,0	40,6	46,0	49,0	52,0	58,0	60,0	65,2	78,0	84,0	90,0	90,0	100,0
	MD		29,0	33,0	36,0	40,6	46,0	49,0	52,0	58,0	60,0	65,2	78,0	84,0	90,0	90,0	100,0
Elongation at maximum load	Tolerance		-2,9	-3,5	-4,2	-3,6	-6,5	-6,0	-6,0	-7,0	-7,0	-5,8	-8,0	-10,9	-10,0	-10,0	-10,0
	CMD		80	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	EN ISO 10319	%	± 16	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 25
	MD		80,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0	90,0
Energy absorption index	Tolerance		± 16	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 18	± 25
	CMD		12,6	16,2	17,1	19,4	22,5	24,8	27,2	28,8	29,7	31,5	36,0	43,8	45,0	45,0	56,3
	EN ISO 10318	kJ/m ²	11,6	14,9	16,2	18,3	20,7	22,1	23,4	26,1	27,0	29,3	35,1	37,8	40,5	40,5	50,0
Static puncture (CBR test)	EN ISO 12236	N	4.850	5.630	6.400	6.500	7.650	8.150	8.600	9.500	10.000	11.500	12.800	14.600	15.000	17.000	20.000
	Tolerance		-485	-563	-640	-650	-765	-815	-860	-950	-1.000	-1.150	-1.280	-1.460	-1.500	-1.700	-2.000
Dynamic perforation (Cone drop test)	EN ISO 13433	mm	8,0	6,0	5,0	4,0	3,0	3,0	2,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
	Tolerance		3,0	2,5	2,0	2,0	3,0	2,0	2,0	1,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
Pyramid Puncture	EN 14574	N	400	450	520	580	660	750	850	960	1.000	1.280	1.770	2.250	2.400	2.600	4.300
	Tolerance		-40	-45	-50	-58	-60	-75	-85	-95	-100	-115	-175	-225	-240	-260	-500
Characteristic opening size	O ₉₀ EN ISO 12956	µm	75	75	70	70	70	70	70	70	70	70	70	70	70	70	70
	Tolerance		± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20	± 20
Water permeability normal to the plane	(h=50 mm) EN ISO 11058	l/(m ² .s)	40	39	33	30	27	26	25	22	20	18	16	14	14	14	20
	Tolerance		-13	-12	-11	-10	-9	-9	-8	-7	-7	-6	-5	-4	-4	-4	-6
Water flow in the plane	(20 kPa, i=1) EN ISO 12958	*10 ⁻⁸ m ² /s	9,0	9,5	10,0	10,5	11,0	11,5	12,0	14,0	15,0	16,0	17,0	20,0	20,0	23,0	25,0
	Tolerance		-3,1	-3,6	-4,0	-4,1	-4,1	-4,2	-4,3	-4,4	-4,5	-4,6	-4,7	-5,1	-5,1	-6,0	-6,5
Weathering resistance	EN 12224		To be covered within 1 month after installation														
Oxidation resistance	EN ISO 13438		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Dangerous substances			Less than required by national regulations in EU Member States														

These data are statistic figures according to Harmonized European Standards, cert. n. 1213-CPR-3243

The quality system is certified according to EN ISO 9001/2008.

- Durable in natural soil with pH < 4 or > 9 and soil temperature > 25 °C for a minimum of 25 year service life (EN 12225 e EN 14030 A/B)
- Durable in natural soil with pH < 4 or > 9 and soil temperature > 25 °C for a minimum of 50 year service life (EN 12225 e EN 14030 A/B)
- Durable in natural soil with pH < 4 or > 9 and soil temperature > 25 °C for a minimum of 100 year service life (EN 12225 e EN 14030 A/B)

Date 01.01.2016 Rev 4
If no specific tolerance is indicated, than tolerance of 10% has to be considered
Data sheet values can be modified without prior notice