

Material Division.

Nonwoven Geotextiles Technical Data

PET/ Geotextile, Needlepunched

	SI -100	SI -110	SI -120	SI -140	SI -180	SI -200	SI -300	SI -400	SI -500	SI -600	SI -800	SI -1000	SI -1200
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Physical

			SI -100	SI -110	SI -120	SI -140	SI -180	SI -200	SI -300	SI -400	SI -500	SI -600	SI -800	SI -1000	SI -1200
Basis Weight	g/m ²	EN ISO 9864	100	110	120	140	180	200	300	400	500	600	800	1000	1200
Thickness	mm	EN ISO 9863-1	1.4	1.5	1.6	1.8	2.0	2.3	3.2	3.7	4.5	5.0	6.5	8.0	9.0

Mechanical

Tensile Strength MD Strip	kN/m	EN ISO 10319	5	6	7	8	10	13	20	25	30	36	38	50	55
Tensile Strength CD Strip	kN/m	EN ISO 10319	5	6	7	8	10	13	20	25	30	36	44	75	85
Elongation MD	%	EN ISO 10319	70	70	70	70	70	70	70	70	70	80	80	80	80
Elongation CD	%	EN ISO 10319	70	70	70	70	70	70	70	70	70	80	80	80	80
Puncture Resistance CBR	N	EN ISO 12236	900	1200	1200	1500	1900	2200	3300	4200	5300	6400	8200	10000	11000
Puncture Resistance cone drop	mm	EN ISO 13433	31	30	30	28	25	22	13	9	5	4	1	1	0

Hydrolysis

Pore size O90%	microns	EN ISO 12956	105	100	100	100	80	75	70	70	68	68	65	65	60
Water Flow Normal to plane 100mm WH	l/m ² /s	EN ISO 11058	150	150	150	145	110	100	95	85	75	50	45	40	25
Water Flow Normal to plane 50mm WH	l/m ² /s	EN ISO 11058	90	87	85	85	65	60	55	50	45	29	27	25	15

SI Dimentions

Standard Roll Width	Meter	-	6	6	6	6	6	6	6	6	6	6	6	6	6
Standard Roll Length	Meter	-	200	200	200	200	100	100	100	100	75	75	50	35	35
Standard Roll Weight	Kg	-	120	132	144	168	108	120	180	240	225	270	240	210	252

Other Grades of SI Geotextile products, ranges from (80 gms to 2200 g /sq m) are available upon request.

Material Division.

Nonwoven Geotextiles Technical Data

PP/ Geotextile, Needleponched, Thermobonded

SI -100PT SI -110PT SI -120PT SI -130PT SI -140PT SI -150PT SI -160PT SI -175PT SI -200PT SI -250PT SI -300PT SI -350PT SI -400PT

Physical

Basis Weight	g/m ²	EN ISO 9864	100	110	120	130	140	150	160	175	200	250	300	350	400
Thickness	mm	EN ISO 9863-1	0.6	0.7	0.7	0.8	0.8	0.8	0.9	0.9	1	1.4	1.5	1.7	1.8

Mechanical

Tensile Strength MD Strip	kN/m	EN ISO 10319	7	8	9	10	11	12	12	13	16	18	22	26	30
Tensile Strength CD Strip	kN/m	EN ISO 10319	7	8	9	10	11	12	12	13	16	18	22	26	30
Elongation MD	%	EN ISO 10319	60	60	60	60	60	60	60	60	60	60	60	60	60
Elongation CD	%	EN ISO 10319	60	60	60	60	60	60	60	60	60	60	60	60	60
Puncture Resistance CBR	N	EN ISO 12236	1100	1300	1500	1600	1700	1800	1900	2000	2500	3100	3700	4400	5000
Puncture Resistance cone drop	mm	EN ISO 13433	35	35	35	32	31	30	27	24	19	15	12	11	10

Hydrolysis

Pore size O90%	microns	EN ISO 12956	95	85	70	70	80	85	85	85	75	70	63	67	65
Water Flow Normal to plane 100mm WH	l/m ² /s	EN ISO 11058	110	110	110	110	100	85	75	65	50	50	50	50	30
Water Flow Normal to plane 50mm WH	l/m ² /s	EN ISO 11058	70	70	70	70	60	50	47	40	30	30	30	29	20

SI Dimentions

Standard Roll Width	Meter	-	6	6	6	6	6	6	6	6	6	6	6	6	6
Standard Roll Length	Meter	-	200	200	200	200	200	200	200	200	100	100	100	100	100
Standard Roll Weight	Kg	-	120	132	144	156	168	180	192	210	120	150	180	210	240

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Nonwoven Geotextiles Technical Data

PP/ Geotextile, Needlepunched

	SI -140P	SI -180P	SI -200P	SI -300P	SI -400P	SI -500P	SI -600P	SI -650P	SI -700P	SI -800P	SI -1000P	SI -1200P	SI -1500P
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Physical

			SI -140P	SI -180P	SI -200P	SI -300P	SI -400P	SI -500P	SI -600P	SI -650P	SI -700P	SI -800P	SI -1000P	SI -1200P	SI -1500P
Basis Weight	g/m ²	EN ISO 9864	140	180	200	300	400	500	600	650	700	800	1000	1200	1500
Thickness	mm	EN ISO 9863-1	1.4	1.8	2.0	3.0	3.7	4.0	4.5	5.0	5.3	6.0	7.0	8.0	9.5

Mechanical

Tensile Strength MD Strip	kN/m	EN ISO 10319	9	14	16	24	29	38	46	45	52	58	64	70	80
Tensile Strength CD Strip	kN/m	EN ISO 10319	9	14	16	24	30	40	48	50	54	64	75	85	106
Elongation MD	%	EN ISO 10319	60	60	60	60	60	60	70	70	70	70	70	70	70
Elongation CD	%	EN ISO 10319	60	60	60	60	60	60	70	70	70	70	70	70	70
Puncture Resistance CBR	N	EN ISO 12236	1500	2000	2450	3650	4600	5700	6700	7500	8100	9500	11500	14000	15750
Puncture Resistance cone drop	mm	EN ISO 13433	26	22	20	12	11	7	5	4	3	1	0	0	0

Hydrolysis

Pore size O90%	microns	EN ISO 12956	100	100	100	70	80	70	70	70	75	80	70	60	80
Water Flow Normal to plane 100mm WH	l/m ² /s	EN ISO 11058	170	145	130	85	85	75	50	50	40	40	35	25	25
Water Flow Normal to plane 50mm WH	l/m ² /s	EN ISO 11058	100	85	80	50	50	45	30	30	25	25	20	15	15

SI Dimentions

Standard Roll Width	Meter	-	6	6	6	6	6	6	6	6	6	6	6	6	6
Standard Roll Length	Meter	-	100	100	100	100	100	100	100	75	75	75	50	50	35
Standard Roll Weight	Kg	-	84	108	120	180	240	300	360	293	315	360	300	360	315

Other Grades of SI Geotextile products, ranges from (80 gms to 2200 g /sq m) are available upon request.