

DUPONT™ TYPAR® SF GEOTEXTILE

Technical Datasheet Europe

Property	Standard	Unit	SF20	SF24	SF27	SF33	SF37	SF40	SF45	SF49	SF56	SF65	SF70	SF77	SF85	SF94	SF111
Descriptive Properties																	
Area Weight	EN ISO 9864	g/m ²	68	80	90	110	125	136	150	165	190	220	240	260	290	320	375
Thickness under 2kN/m ²	EN ISO 9863-1	mm	0,35	0,38	0,39	0,45	0,45	0,47	0,50	0,49	0,57	0,59	0,65	0,65	0,73	0,74	0,83
Thickness under 200kN/m ²	EN ISO 9863-1	mm	0,28	0,29	0,31	0,36	0,37	0,39	0,40	0,40	0,48	0,53	0,59	0,59	0,69	0,69	0,79
Mechanical Properties																	
Energy Absorption	EN ISO 10319	kJ/m ²	1,0	2,0	1,8	3,2	3,6	3,7	4,8	5,8	5,8	7,4	8,2	8,6	9,8	11,4	13,0
Tensile Strength	EN ISO 10319	kN/m	3,4	5,0	5,0	8,0	8,5	9,0	12,0	12,6	13,1	16,5	16,7	20,0	21,3	25,0	30,0
Elongation	EN ISO 10319	%	35	40	40	45	52	52	50	52	52	55	55	55	55	55	55
Strength at 5%	EN ISO 10319	kN/m	1,8	2,3	2,6	3,0	3,8	4,0	4,4	5,2	5,7	6,8	7,2	8,2	8,8	10,0	11,5
Puncture CBR	EN ISO 12236	N	500	700	750	1100	1200	1250	1600	1800	1850	2350	2400	2900	3150	3500	4250
Dyn. Cone Puncture	EN ISO 13433	mm	50	45	45	35	33	29	30	30	22	25	23	22	16	17	14
Grab Strength	ASTM D4632	N	300	420	450	650	725	750	940	1050	1100	1400	1450	1680	1750	2050	2350
Tear Strength	ASTM D4533	N	160	215	220	260	320	370	320	335	460	440	570	450	610	570	600
Hydraulic Properties																	
Opening Size O _{90 Wet}	EN ISO 12956	µm	225	210	175	200	130	120	130	90	80	80	75	75	70	70	65
Flow Rate at 10 cm WH	BS 6906-3	l/(m ² .s)	240	190	175	113	80	75	68	50	60	35	40	23	30	15	15
Permeability (V _{H50})	EN ISO 11058	10 ⁻³ m/s	180	110	100	65	50	50	33	25	35	18	20	12	15	5	5
Permeability at 20 kN/m ²	DIN 60500-4	10 ⁻⁴ m/s	5,2	4,9	4,7	3,5	3,2	2,8	2,6	1,7	1,9	1,6	1,8	1,4	1,6	1,1	1,0
Permeability at 200 kN/m ²	DIN 60500-4	10 ⁻⁴ m/s	3,2	3,1	3,1	2,3	1,8	2,0	1,7	1,2	1,4	1,2	1,3	1,0	1,2	0,8	0,7

Durability

Predicted to be durable for a minimum of 100 years in all natural soils

Natural UV light		Good resistance up to several months in direct sunlight, but prolonged exposure, particularly in tropical sunlight, can cause strength losses. Product should be covered after 2 weeks of installation.
Natural occurring acids and alkali		Unaffected
Oxidation Resistance	EN ISO 13438	100% retained strength
Chemical Resistance	EN 14030	100% retained strength
Microbiological Resistance	EN 12225	100% retained strength

Product Description

Polymer	100% Polypropylene UV Stabilised
Specific gravity	0,91
Melting Point	165° C
Type of fiber	continuous filament
Fiber diameter	40 - 50 micron
Fiber bonding	Thermal bonding

The values correspond to average results obtained in our laboratories and outside institutes and are indicative. The right is reserved to make changes at any time without notice.

DuPont™ Typar® SF Packaging Data

Type	width m	length m	area m ²	diameter cm	weight kg	Max Rolls per full truck 13.6 loading meters
SF20	2.25	250	563	32	44	175
	4.50	200	900	28	72	144
	5.20	400	2080	38	154	48
SF24	2.10	200	420	29	34	288
	4.50	200	900	29	72	144
	5.20	200	1040	29	83	96
SF27	2.10	200	420	29	43	288
	4.50	200	900	29	92	144
	5.20	200	1040	29	107	96
SF33	2,10	150	315	29	35	288
	3,00	150	450	29	50	192
	4,50	150	675	29	74	144
	5.20	150	780	29	86	96
SF37	2.10	150	315	29	45	288
	4.50	150	675	29	96	144
	5.20	150	780	29	111	96
SF40	2.10	150	315	30	48	288
	4.50	150	675	30	103	144
	5.20	150	780	30	119	96
SF45	4,50	100	450	27	68	189
	5.20	100	520	27	78	126
SF49	4.50	100	450	26	86	162
	5.20	100	520	26	99	108
SF56	4.50	100	450	29	97	144
	5.20	100	520	29	112	96
SF65	4.50	100	450	30	110	144
	5.20	100	520	30	127	96
SF70	4.50	100	450	31	119	105
	5.20	100	520	31	138	70
SF77	4.50	100	450	32	128	105
	5.20	100	520	32	148	70
SF85	4.50	100	450	33	142	105
	5.20	100	520	33	164	70
SF94	4.50	100	450	35	155	105
	5.20	100	520	35	179	70
SF111	4.50	100	450	37	180	105
	5.20	100	520	37	208	70



This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to be a substitute for any testing you may need to conduct in order to determine the suitability of our products for your own particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.

DuPont de Nemours (Luxembourg) S.à.r.l.
Rue Général Patton
L-2984 Luxembourg
Tél: +352 3666 5779
Fax: +352 3666 5021

www.typargeo.com



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