Typar® SF Geotextile

Technical Data Sheet

Property	Standard	Unit	SF20	SF24	SF27	SF32	SF33	SF37	SF40	SF44	SF45	SF49	SF56	SF65	SF78	SF85	SF95
Descriptive properties																	
Area weight	EN ISO 9864	g/m²	68	80	90	110	110	125	136	150	150	165	190	220	260	290	320
Thickness under 2kN/m²	EN ISO 9863-1	mm	0.35	0.38	0.39	0.43	0.45	0.45	0.47	0.48	0.50	0.49	0.57	0.59	0.65	0.73	0.74
Thickness under 200kN/m²	EN ISO 9863-1	mm	0.28	0.29	0.31	0.35	0.36	0.37	0.39	0.40	0.40	0.40	0.48	0.53	0.59	0.69	0.69
Mechanical properties																	
Energy absorption	EN ISO 10319	kJ/m²	2.5	3.5	4.0	5.0	4.5	5.5	6.5	7.0	5.8	7.4	8.8	9.8	11.0	13.0	13.5
Tensile strength	EN ISO 10319	kN/m	3.4	5.0	5.5	7.0	8.0	8.5	9.0	10.3	12.0	12.6	13.1	16.5	20.0	21.3	25.0
Elongation	EN ISO 10319	%	35	50	50	45	50	52	52	52	50	55	52	55	50	55	50
Tensile strength at 5%	EN ISO 10319	kN/m	1.7	2.1	2.4	3.1	3.0	3.4	3.7	4.2	4.6	5.0	5.4	6.5	8.0	8.4	9.9
Static Puncture Strength (CBR test)	EN ISO 12236 ASTM D6241	N	500	700	750	1000	1100	1200	1250	1575	1600	1800	1850	2350	2900	3150	3500
Tear strength	ASTM D4533	N	150	200	210	260	230	290	340	350	270	290	400	390	400	530	470
Grab Strength	ASTM D4632	N	300	420	450	625	650	725	750	900	940	1050	1100	1400	1680	1750	2050
Dynamic cone puncture	EN ISO 13433	mm	50	45	45	35	35	33	29	27	30	30	22	25	22	16	17
Hydraulic properties																	
Opening size O_{90} wet	EN ISO 12956	µm	225	210	175	140	200	130	120	100	130	90	80	80	75	70	70
Opening size O_{95} dry	ASTM D4751	µm US Sieve	550 30	490 40	350 40	300 60	460 40	220 70	210 70	200 70	250 60	120 120	100 140	80 200	<75 >200	<75 >200	<75 >200
Permeability ViH50	EN ISO 11058	10^{-3} m/s	180	110	100	70	65	50	50	40	33	25	35	18	12	15	5
Permeability at 20kN/m²	DIN 60500-4	10^{-4} m/s	5.2	4.9	4.7	4.6	3.5	3.2	2.8	2.6	2.6	1.7	1.9	1.6	1.4	1.6	1.1
Permeability at 200kN/m²	DIN 60500-4	10^{-4} m/s	3.2	3.1	3.1	2.9	2.3	1.8	2.0	1.8	1.7	1.2	1.4	1.2	1.0	1.2	0.8

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 4 weeks of installation.
Moisture	Does not absorb moisture
Rot, Mildew	Unaffected
Natural occurring acids and alkali	Unaffected
Oxydation Resistance EN ISO 13438	100% retained strength
Chemical Resistance EN 12960	100% retained strength
Microbiological Resistance EN 12225	100% retained strength

Product Description	
Polymer	100% Polypropylene. UV stabilized
Specific gravity	0.91
Melting point	165°C
Type of fibre	Continuous filament
Fibre diameter	40/60 µm
Fibre bonding	Thermal bonding
Color	Grey

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.

Style	Width (m)	Length (m)	Area (m²)	Roll diameter (cm)	Roll weight (kg)	Maximum number of rolls per full truck (13.6 loading meters)	D Code
SF20	2.25	250	563	32	44	240	D13408146
	4.50	200	900	28	72	165	D13408602
	5.20	400	2080	38	154	70	D13541592
SF24	2.10	200	420	29	34	288	D14537652
	4.50	200	900	29	72	144	D14537633
	5.20	200	1040	29	83	96	D14537643
SF27	2.10	200	420	29	43	288	D13407663
	4.50	200	900	29	92	144	D13407762
	5.20	200	1040	29	107	96	D13407507
SF32	2.00	200	400	30	49	288	D13408024
	4.50	200	900	30	110	144	D13407516
	5.20	200	1040	30	127	96	D13407714
SF33	4.50	150	675	29	74	165	D14646189
	5.20	150	780	29	86	110	D14584751
SF37	2.10	150	315	29	45	330	D13407829
	4.50	150	675	29	96	165	D13407708
	5.20	150	780	29	111	110	D13407540
SF40	2.10	150	315	30	48	288	D13408047
	4.50	150	675	30	103	144	D13407983
	5.20	150	780	30	119	96	D13407475
SF44	4.50	150	675	31	113	144	D13539827
	5.20	150	780	31	130	96	D13408626
SF45	4.50	100	450	27	68	165	D14662697
	5.20	100	520	27	78	110	D14584767
SF49	4.50	100	450	26	86	165	D13407830
	5.20	100	520	26	99	110	D13407685
SF56	4.50	100	450	29	97	165	D13408204
	5.20	100	520	29	112	110	D13407679
SF65	4.50	100	450	30	110	144	D13408742
	5.20	100	520	30	127	96	D13407722
SF78	4.50	100	450	32	128	144	D13408712
	5.20	100	520	32	148	96	D13408212
SF85	4.50	100	450	33	142	144	D13540279
	5.20	100	520	33	164	96	D13540262
SF95	5.20	100	520	35	179	70	D15520072

ISO 14001

Accredited by the Dutch Council for Certification

EC ECO MANAGEMENT AND AUDIT SCHEME

This site has an environmental management system and its environmental performance is reported on to the public in accordance with the Community eco-management and audit scheme.

(Registration No. LX-S-0001)

responsible care®

DuPont™ Typar® products contain up to 55% of recycled internal excess material. With this, DuPont™ significantly reduces the waste generated during the Typar® production process and limits the need for using virgin polymer.

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Further product information is available upon request. This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own testing. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your 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.