

Geotechnics

DuPont™ Typar® SF

DuPont™ Typar® SF is a thin, thermally bonded, water permeable nonwoven geotextile made of polypropylene filaments. Typar® SF is designed with a combination of a high initial modulus and a high elongation. This gives a resistance to damage during and after the installation. Typar® SF is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills separation and filtration functions.

Descriptive properties	Test Method	Unit	SF27	SF32	SF45	SF56	SF65
Area Weight	EN ISO 9864	g/m ²	90	110	150	190	220
Thickness under 2kN/m ²	EN ISO 9863-1	mm	0,39	0,43	0,50	0,57	0,65
Polymer			100% polypropylene, UV stabilised				
Mechanical properties							
Energy Absorption	EN ISO 10319	kJ/m ²	1,8	3,6	4,8	5,8	8,6
Tensile strength	EN ISO 10319	kN/m	5,0	8,5	12,0	13,1	20,0
Elongation	EN ISO 10319	%	40	45	50	52	55
Strength at 5%	EN ISO 10319	kN/m	2,3	3,3	4,4	5,7	8,2
Puncture CBR	EN ISO 12236	kN	0,8	1,0	1,6	1,9	2,9
Dyn. Cone Puncture	EN ISO 13433	mm	45	35	30	22	22
Hydraulic properties							
Opening Size O90 Wet	EN ISO 12956	µm	175	140	130	80	75
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	100	70	33	18	12
Roll Dimensions							
Width		m	5,20 (other widths available)				
Length		m	200	200	100	100	100
Area		m ²	1040	1040	520	520	520
Diameter		cm	38	29	27	29	32
Weight of roll		kg	154	111	78	112	148

There are more types available, please contact us for more information.

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Geotechnics

MebraTex PP W

MebraTex PPW is a woven geotextile, with a high tensile strength value at a low elongation rate. The MebraTex PP W is made from polypropylene tapes to form a strong and stable woven geotextile. MebraTex PP W is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills separation and filtration functions.

Descriptive properties	Test Method	Unit	10	15	40	60	80
Area Weight	EN ISO 9864	g/m ²	90	100	190	285	350
Polymer				Polypropylene (PP)			
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	20	20	40	60	80
Tensile Strength - CMD	EN ISO 10319	kN/m	11	14	40	60	80
Elongation - MD	EN ISO 10319	%	13	13	12	17	11
Elongation - CMD	EN ISO 10320	%	12	12	9	10	7
Puncture CBR	EN ISO 12236	N	2,1	2,4	4,4	6,5	9,0
Dyn. Cone Puncture	EN ISO 13433	mm	15	15	14	6	4
Hydraulic properties							
Opening Size O90 Wet	EN ISO 12956	µm	200	200	200	200	190
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	20	19	29	25	20
Roll Dimensions							
Width		m	5,25	5,25	5,20	5,20	2,20
Length		m	100	100	100	100	100
Area		m ²	525	525	520	520	520
Diameter		cm	20	22	28	42	40
Weight of roll		kg	54	60	105	162	187

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Geotechnics

MebraTex PET W Uniaxial

MebraTex PET W is a high strength woven geotextile, with a high tensile strength value at a low elongation rate. The MebraTex PET W consists of a dense woven structure of polyester fibres. MebraTex PET W is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills reinforcement functions.

Descriptive properties	Test Method	Unit	100/50	150/50	200/50	300/50	400/50
Area Weight	EN ISO 9864	g/m ²	240	320	400	560	700
Polymer	Polyester (PET)						
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	102	152	202	302	402
Tensile Strength - CMD	EN ISO 10319	kN/m	52	52	52	52	52
Elongation - MD	EN ISO 10319	%	10	10	10	10	10
Elongation - CMD	EN ISO 10320	%	10	10	10	10	10
Strength at 5% - MD	EN ISO 10319	kN/m	50	90	100	120	80
Strength at 5% - CMD	EN ISO 10320	kN/m	25	20	20	30	10
Puncture CBR	EN ISO 12236	kN	10	10	11	12	14
Dyn. Cone Puncture	EN ISO 13433	mm	7	6	10	6	6
Hydraulic properties							
Opening Size O90 Wet	EN ISO 12956	µm	160	80	75	80	75
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	8	7	8	4	2
Roll Dimensions							
Width		m			5,30		
Length		m	200	200	200	100	100
Area		m ²	1060	1060	1060	530	530
Diameter		cm	33	38	39	36	38
Weight of roll		kg	254	339	424	297	371

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Geotechnics

MebraTex PET W Biaxial

MebraTex PET W is a high strength woven geotextile with a high tensile strength value at a low elongation rate. The MebraTex PET W consists of a dense woven structure of polyester fibres. MebraTex PET W is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills reinforcement functions.

Descriptive properties	Test Method	Unit	70/70	100/100	150/150	200/200
Area Weight	EN ISO 9864	g/m ²	230	320	460	620
Polymer				Polyester (PET)		
Mechanical properties						
Tensile Strength - MD	EN ISO 10319	kN/m	72	102	152	202
Tensile Strength - CMD	EN ISO 10319	kN/m	72	102	152	202
Elongation - MD	EN ISO 10319	%	10	11	11	13
Elongation - CMD	EN ISO 10320	%	10	11	11	13
Strength at 5% - MD	EN ISO 10319	kN/m	24	30	50	80
Strength at 5% - CMD	EN ISO 10320	kN/m	24	30	50	80
Puncture CBR	EN ISO 12236	kN	9	11	18	23
Dyn. Cone Puncture	EN ISO 13433	mm	7	4	4	6
Hydraulic properties						
Opening Size O90 Wet	EN ISO 12956	µm	140	80	150	80
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	13	7	7	6
Roll Dimensions						
Width		m		5,30		
Length		m	200	200	100	100
Area		m ²	1060	1060	530	530
Diameter		cm	30	37	31	36
Weight of roll		kg	244	339	244	328

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Geotechnics

MebraGrid Biaxial

MebraGrid Biaxial is a geogrid, with a high tensile strength value at a low elongation rate. The MebraGrid is woven and is coated with PVC for protection and easy handling. MebraGrid is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills soil reinforcement functions.

Descriptive properties	Test Method	Unit	20/20	30/30	40/40	50/50	100/100
Area Weight	EN ISO 9864	g/m ²	225	300	390	405	790
Mesh size		mm x mm	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25
Polymer			Polyester (PET), with PVC coating				
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	22	32	42	52	102
Tensile Strength - CMD	EN ISO 10319	kN/m	22	32	42	52	102
Elongation - MD	EN ISO 10319	%	10	10	11	11	13
Elongation - CMD	EN ISO 10320	%	10	10	11	11	13
Strength at 5% - MD	EN ISO 10319	kN/m	10	12	13	15	25
Strength at 5% - CMD	EN ISO 10320	kN/m	10	12	13	15	25
Roll Dimensions							
Width		m			5,20		
Length		m	200	200	200	100	100
Area		m ²	1040	1040	1040	520	520
Diameter		cm	32	38	42	32	42
Weight of roll		kg	234	312	405	210	410

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Geotechnics

MebraGrid Uniaxial

MebraGrid Uniaxial is a geogrid, with a high tensile strength value at a low elongation rate. The MebraGrid is woven and is coated with PVC for protection and easy handling. MebraGrid is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills soil reinforcement functions.

Descriptive properties	Test Method	Unit	35/20	55/30	110/30	150/30	200/30
Area Weight	EN ISO 9864	g/m ²	280	315	450	700	740
Mesh size		mm x mm	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25
Polymer			Polyester (PET), with PVC coating				
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	37	57	82	152	202
Tensile Strength - CMD	EN ISO 10319	kN/m	22	32	31	32	102
Elongation - MD	EN ISO 10319	%	10	10	10	10	10
Elongation - CMD	EN ISO 10320	%	10	10	11	11	11
Strength at 5% - MD	EN ISO 10319	kN/m	20	22	26	52	70
Strength at 5% - CMD	EN ISO 10320	kN/m	7	6	6	11	7
Roll Dimensions							
Width		m			5,20		
Length		m	200	200	100	100	100
Area		m ²	1040	1040	520	520	520
Diameter		cm	38	38	38	42	43
Weight of roll		kg	291	327	260	364	385

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Geotechnics

MebraTex PE W 180

MebraTex PE W is a woven geotextile, with a high tensile strength value at a low elongation rate. The MebraTex PE W is made from polypropylene tapes to form a strong and stable woven geotextile. MebraTex PE W is a reliable solution for a broad array of engineering structures and installations, wherein it fulfills separation and filtration functions.

Descriptive properties	Test Method	Unit	Value	Tolerance
Area Weight	EN ISO 9864	g/m ²	212	+/-21,2
Thickness under 2kN/m ²		mm	0,70	+/-0,14
Polymer			Polyethylene (PE)	
Mechanical properties				
Tensile Strength - MD	EN ISO 10319	kN/m	40	-5,2
Tensile Strength - CMD	EN ISO 10319	kN/m	40	-5,2
Elongation - MD	EN ISO 10319	%	30	+/-6,9
Elongation - CMD	EN ISO 10320	%	14	+/-3,2
Puncture CBR	EN ISO 12236	N	5,0	-1,00
Dyn. Cone Puncture	EN ISO 13433	mm	13	+2,6
Hydraulic Properties				
Opening Size O90 Wet	EN ISO 12956	µm	249	+/-49,8
Permeability (VH50)	EN ISO 11058	l/m ² *s	65	-20
Rol Dimensions				
Width		m	5,25	
Length		m	100	
Area		m ²	525	

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Geotechnics

Descriptive properties	Test Method	Unit	Value	Tolerance
Area Weight	EN ISO 9864	g/m ²		
Thickness under 2kN/m ² Polymer		mm		
Mechanical properties				
Tensile Strength - MD	EN ISO 10319	kN/m		
Tensile Strength - CMD	EN ISO 10319	kN/m		
Elongation - MD	EN ISO 10319	%		
Elongation - CMD	EN ISO 10320	%		
Puncture CBR	EN ISO 12236	N		
Dyn. Cone Puncture	EN ISO 13433	mm		
Hydraulic Properties				
Opening Size O90 Wet	EN ISO 12956	µm		
Permeability (VH50)	EN ISO 11058	l/m ² *s		
RoI Dimensions				
Width		m		
Length		m		
Area		m ²		

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Geotechnics

MebraTex PP TB NW

MebraTex PP TB NW is an thermally bonded nonwoven geotextile, represent a highly specialized combination of high tensile strength value at high elongation rate. The MebraTex PPTB NW is made from polypropylene needlepunched, thermal bonded to form a stronger and stable nonwoven geotextile. MebraTex PP TB NW represent a reliable solution for a broad array of engineering structures and installations, wherein they fulfill separation and filtration functions.

Descriptive properties	Test Method	Unit	90	120	180	200	300
Area Weight	EN ISO 9864	g/m ²	100	120	180	200	300
Thickness under 2kN/m ²	EN ISO 9863-1	mm	0,60	0,58	0,70	0,90	1,25
Polymer					Polypropylene (PP)		
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	6,0	8,5	12,5	17,0	24,0
Tensile Strength - CMD	EN ISO 10319	kN/m	6,0	10,0	12,5	18,0	24,0
Elongation - MD	EN ISO 10319	%	40	50	50	60	65
Elongation - CMD	EN ISO 10320	%	55	60	65	70	75
Puncture CBR	EN ISO 12236	kN	1,1	1,4	0,7	2,5	3,7
Dyn. Cone Puncture	EN ISO 13433	mm	30	32	24	20	15
Hydraulic properties							
Opening Size O90 Wet	EN ISO 12956	µm	90	80	63	60	50
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	100	77	50	42	34
Rol Dimensions							
Width		m	6,50 (other widths available)				
Length		m	100	150	100	100	100
Area		m ²	650	975	650	650	650
Diameter		cm	25	37	33	34	40
Weight of roll		kg	66	124	124	137	202

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Geotechnics

MebraTex PP NP NW

MebraTex PP NP NW is an needlepunched nonwoven geotextile, represent a highly specialized combination of high tensile strength value at high elongation rate. The MebraTex PP NP NW is made from polypropylene needlepunched to form a strong and stable nonwoven geotextile. MebraTex PP NP NW represent a reliable solution for a broad array of engineering structures and installations, wherein they fulfill separation and filtration functions.

Descriptive properties	Test Method	Unit	100	200	300	400	500
Area Weight	EN ISO 9864	g/m ²	100	200	300	400	400
Thickness under 2kN/m ²	EN ISO 9863-1	mm	1,35	2,20	3,30	3,70	3,80
Polymer				Polypropylene (PP)			
Mechanical properties							
Tensile Strength - MD	EN ISO 10319	kN/m	6,0	14,0	22,0	32,0	36,0
Tensile Strength - CMD	EN ISO 10319	kN/m	8,0	16,0	22,0	35,0	36,0
Elongation - MD	EN ISO 10319	%	70	80	70	75	70
Elongation - CMD	EN ISO 10320	%	85	90	80	75	70
Puncture CBR	EN ISO 12236	kN	1,2	2,2	3,5	5,5	5,5
Dyn. Cone Puncture	EN ISO 13433	mm	37	19	8	6	5
Hydraulic properties							
Opening Size O90 Wet	EN ISO 12956	µm	130	80	65	67	66
Permeability (VH50)	EN ISO 11058	10 ⁻³ m/s	100	80	34	34	20
Roll Dimensions							
Width		m	6,50 (other widths available)				
Length		m	200	100	110	90	70
Area		m ²	1300	650	715	585	455
Diameter		cm	50	50	60	60	60
Weight of roll		kg	130	130	215	234	228

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