

Megadrain S

Drainage mats

Technical data

TenCate Polyfelt® Megadrain S is a drainage product made of three-dimensional polypropylene monofilaments combined with one or two layers of polypropylene filter geotextile. TenCate Polyfelt® Megadrain S has an extremely high voids content offering a high in-plane flow capacity. TenCate Polyfelt® Megadrain S drainage mats are used for surface drainage applications, replacing conventional drainage gravel layers.



TenCate Polyfelt® Megadrain S

Properties [Standard]	Unit	29-107	59-120	14-206	27-207	38-215	59-220
Type of product	-	Drainage composite with filter on one side		Drainage composite with filter on both sides			
Raw material	-	PP (monofilament mat) + PP UV-stabilized (filter)					
In-plane flow capacity*							
		s/h	s/h	s/h	s/h	s/h	s/h
i = 1	20 kPa l/(m/s)	2.90	5.93	1.40	2.70	3.80	5.93
	50 kPa l/(m/s)	2.50	2.70	1.20	2.30	2.20	2.60
	100 kPa l/(m/s)	2.00	1.00	0.90	1.80	0.80	1.00
i = 0.1	20 kPa l/(m/s)	0.74	1.62	0.32	0.70	1.20	1.62
[EN ISO 12958]	50 kPa l/(m/s)	0.68	1.20	0.28	0.57	0.70	1.00
	100 kPa l/(m/s)	0.62	0.35	0.25	0.45	0.30	0.30
Thickness [EN ISO 9863-1]	2 kPa mm	7	20	5.5	7	15	20
Tensile strength [EN ISO 10319]	kN/m	7.5 / 7.5	7.5 / 7.5	15 / 15	15 / 15	15 / 15	15 / 15

Filter geotextile	all grades	Properties	Unit	all grades
Type of product	Mechanically bonded continuous-filament nonwoven	Cone drop test [EN ISO 13433]	mm	36
		Tensile strength MD / CD [EN ISO 10319]	kN/m	7.5 / 7.5
		CBR puncture resistance [EN ISO 12236]	N	1200
		Opening size O ₉₀ [EN ISO 12956]	µm	90
		Water permeability [EN ISO 11058, Δh = 50 mm]	l/m ² .s (mm/s)	90

Forms of supply	Unit	29-107	59-120	14-206	27-207	38-215	59-220
Length [±2%]	m	77	25	83	68	33	25
Width [±3%]	m	2,4	2,4	2,4	2,4	2,4	2,4
Roll diameter	mm	800	800	800	800	800	800

*) Tolerance -20%

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

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