

Technical Data Sheet

EnkaDrain™ 5004F/5-1S/M110PP Data Sheet



EnkaDrain™ is a three-dimensional composite made of a drainage core connected to durable nonwoven filters. The high performance drainage core is made of polymeric monofilaments spun into a pyramid or V shape configuration. This resulting structure is very open, ensuring maximum drainage capacity, and is compression-resistant with over 90% voids. Structural drainage systems have to provide the discharge capacity required under the maximum compressive stress of the relevant project.

Properties geocomposite	Test Method	Unit	EnkaDrain™ 5004F/5-1s/M110PP
Polymer			PP
Weight	EN ISO 9864	g/cm ²	410
Thickness under 2 kPa	EN ISO 9863-1	mm	4
Tensile Strength - MD	EN ISO 10319	kN/m	8
Static puncture resistance (CBR)	EN ISO 12236	kN	1.5
Hydraulic gradient	Load kPa		Flow capacity (EN ISO 12958), rigid/foam
i = 1	20	(l/s)/m	1
	50	(l/s)/m	0.95
	100	(l/s)/m	0.8
i = 0.1	20	(l/s)/m	0.26
	50	(l/s)/m	0.22
	100	(l/s)/m	0.2
i = 0.03	20	(l/s)/m	0.09
	50	(l/s)/m	0.08
	100	(l/s)/m	0.04
Properties fleece	Test Method	Unit	EnkaDrain™ 5004F/5-1s/M110PP
Dynamic perforation resistance (cone drop) top fleece	EN ISO 13433	mm	32
Static puncture resistance (CBR)	EN ISO 12236	kN	1.5
Characteristic opening size (O90)	EN ISO 12956	µm	95
Water permeability normal to the plane (Vlh50)	EN ISO 11058	mm/s	100
Environmental Properties	Test Method	Unit	EnkaDrain™ 5004F/5-1s/M110PP
Substances of Very High Concern (SVHC)	REACH	w/w	≤ 0.1
Durability in soils ²	EN 13252	years	≥ 100
Maximum allowed time between installation and covering	EN 13252	weeks	4
Dimensions		Unit	EnkaDrain™ 5004F/5-1s/M110PP
Width x Length*		m	5 x 100
Length / diameter of roll		m	5.3 x 0.7
Gross weight		kg	225

* Roll dimensions mentions are item specific. We are able to change roll length or product composition according to your needs.

² Predicted minimal durability in years in natural soils with 4 < pH < 9 and soil temperatures < 25°C



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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 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 becomes available. Since we cannot anticipate all variations in actual end use conditions, Geosynthetics Limited makes no warranties and assumes no liabilities in connection with this information. Nothing in this publication is to be considered as a licence to operate under or a recommendation to infringe any patent right.



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