Technical Data Sheet

EnkaDrain™ 5004L/5-2S/M110PP Data Sheet

Geosynthetics

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™ 5004L/5-2S/M110PP**
Polymer			PP
Weight	EN ISO 9864	g/cm²	420
Thickness under 2 kPa	EN ISO 9863-1	mm	4
Tensile Strength - MD	EN ISO 10319	kN/m	18
Static puncture resistance (CBR)	EN ISO 12236	kN	3
Hydraulic gradient	**Load kPA**		**Flow capacity (EN ISO 12958), rigid/foam**
i= 1	20	(l/s)/m	1
	50	(l/s)/m	0.9
i = 0.1	20	(l/s)/m	0.26
	50	(l/s)/m	0.22
i = 0.03	20	(l/s)/m	0.06
	50	(l/s)/m	0.05
Properties fleece	**Test Method**	**Unit**	**EnkaDrain™ 5004L/5-2S/M110PP**
Dynamic perforaton resistance (cone drop) top fleece	EN ISO 13433	mm	30
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 (VIh50)	EN ISO 11058	mm/s	100
Environmental Properties	**Test Method**	**Unit**	**EnkaDrain™ 5004L/5-2S/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™ 5004L/5-2S/M110PP**
Width x Length*		m	5 x 110
Length / diameter of roll		m	5.3 x 0.8
Gross weight		kg	260

* 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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