Technical Data Sheet

EnkaDrain™ 5004F/5-2S Flex 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™ 5004F/5-2s/M110PP/M160PP
Polymer			PP
Weight	EN ISO 9864	g/cm²	570
Thickness under 2 kPa	EN ISO 9863-1	mm	5.2
Tensile Strength - MD	EN ISO 10319	kN/m	20
Static puncture resistance (CBR)	EN ISO 12236	kN	3.7
Hydraulic gradient	**Load kPA**		**Flow capacity (EN ISO 12958), foam/foam**
i= 1	20	l/m/s	0.80
	50	l/m/s	0.73
	100	l/m/s	0.65
	200	l/m/s	0.35
i = 0.1	20	l/m/s	0.20
	50	l/m/s	0.16
	100	l/m/s	0.11
	200	l/m/s	0.06
i = 0.03	20	l/m/s	0.06
	50	l/m/s	0.04
	100	l/m/s	0.03
	200	l/m/s	0.02
Properties fleece	**Test Method**	**Unit**	**M110PP / M160PP**
Dynamic perforaton resistance (cone drop) top fleece	EN ISO 13433	mm	30 / 22
Static puncture resistance (CBR)	EN ISO 12236	kN	1.5 / 2
Characteristic opening size (O90)	EN ISO 12956	µm	95 / 80
Water permeability normal to the plane (Vlh50)	EN ISO 11058	mm/s	100 / 80
Dimensions		**Unit**	**EnkaDrain™ 5004F/5-2s/M110PP/M160PP**
Width x Length		m	5 x 100
Length / diameter of roll		m	5.3 x 0.80
Gross weight		kg	307

Maximum allowed time between installation and covering of the geosynthetic: 1 month (with the M110PP fleece on top)

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