

Technical Data Sheet

EnkaDrain™ 5004F/5-2S/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/5-2s/M110PP
Polymer			PP
Weight	EN ISO 9864	g/cm²	520
Thickness under 2 kPa	EN ISO 9863-1	mm	5
Tensile Strength - MD	EN ISO 10319	kN/m	18
Static puncture resistance (CBR)	EN ISO 12236	kN	3.2
Hydraulic gradient	Load kPa		Flow capacity (EN ISO 12958), rigid/foam
i = 1	20	m²/s	1 x 10 ⁻³
	50	m²/s	0.90 x 10 ⁻³
	100	m²/s	0.80 x 10 ⁻³
	200	m²/s	0.50 x 10 ⁻³
i = 0.1	20	m²/s	0.26 x 10 ⁻³
	50	m²/s	0.22 x 10 ⁻³
	100	m²/s	0.20 x 10 ⁻³
	200	m²/s	0.14 x 10 ⁻³
i = 0.03	20	m²/s	0.06 x 10 ⁻³
	50	m²/s	0.05 x 10 ⁻³
	100	m²/s	0.05 x 10 ⁻³
	200	m²/s	0.04 x 10 ⁻³
Properties fleece	Test Method	Unit	EnkaDrain™ 5004F/5-2s/M110PP
Dynamic perforation 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 (Vlh50)	EN ISO 11058	mm/s	100
Dimensions		Unit	EnkaDrain™ 5004F/5-2s/M110PP
Width x Length		m	5 x 100
Length / diameter of roll		m	5.3 x 0.75
Gross weight		kg	291

Maximum allowed time between installation and covering of the geosynthetic: 1 month



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