

Technical Data Sheet

EnkaDrain™ 5004C/2s/T110PP 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™ 5004C/2s/T110PP
Polymer			PP
Weight	EN ISO 9864	g/cm²	720
Thickness under 2 kPa	EN ISO 9863-1	mm	4.5
Tensile Strength - MD	EN ISO 10319	kN/m	14
Static puncture resistance (CBR)	EN ISO 12236	kN	2
Hydraulic gradient	Load kPa		Flow capacity (EN ISO 12958), rigid/foam
i = 1	20	m²/s	1.10 x 10 ⁻³
	50	m²/s	1 x 10 ⁻³
	100	m²/s	0.90 x 10 ⁻³
	200	m²/s	0.81 x 10 ⁻³
i = 0.1	20	m²/s	0.22 x 10 ⁻³
	50	m²/s	0.19 x 10 ⁻³
	100	m²/s	0.17 x 10 ⁻³
	200	m²/s	0.09 x 10 ⁻³
i = 0.03	20	m²/s	0.09 x 10 ⁻³
	50	m²/s	0.08 x 10 ⁻³
	100	m²/s	0.07 x 10 ⁻³
	200	m²/s	0.06 x 10 ⁻³
Properties fleece	Test Method	Unit	EnkaDrain™ 5004C/2s/T110PP
Dynamic perforaton resistance (cone drop) top fleece	EN ISO 13433	mm	35
Static puncture resistance (CBR)	EN ISO 12236	kN	1
Characteristic opening size (O90)	EN ISO 12956	µm	140
Water permeability normal to the plane (Vlh50)	EN ISO 11058	mm/s	70
Dimensions		Unit	EnkaDrain™ 5004C/2s/T110PP
Width x Length		m	2 x 50
Length / diameter of roll		m	2.35 x 0.6
Gross weight		kg	80

Maximum allowed time between installation and covering of the geosynthetic: 2 weeks



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01455 617139



Unit 3 Hinckley Park, Avery Way,
Hinckley, Leicestershire, LE10 3FF



www.geosyn.co.uk