

Technical Data Sheet

EnkaDrain™ TPL/1-2s Data Sheet



EnkaDrain™ composites consist of a three-dimensional monofilament structure (the drainage core) which is bonded to a protective, filtering or laticence-tight nonwoven on one or both sides. The number of attached nonwovens is referred to as 1s (1 side) or 2s (2 sides) in the product typology. The drainage core can be pyramidal or v-shaped and can be made from different polymers. All EnkaDrain™ types are lightweight, flexible, and easy to cut. They have no shape memory and have good load distribution.

Properties geocomposite	Test Method	Unit	EnkaDrain™ TPL/1- 2s
Polymer			PA/PET
Weight	EN ISO 9864	g/cm²	700
Thickness under 2 kPa	EN ISO 9863-1	mm	10
Tensile Strength - MD	EN ISO 10319	kN/m	17.6
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	2 x 10 ⁻³
	50	m²/s	0.87 x 10 ⁻³
	100	m²/s	0.33 x 10 ⁻³
	200	m²/s	0.11 x 10 ⁻³
i = 0.1	20	m²/s	0.51 x 10 ⁻³
	50	m²/s	0.25 x 10 ⁻³
	100	m²/s	0.08 x 10 ⁻³
	200	m²/s	0.02 x 10 ⁻³
i = 0.03	20	m²/s	0.27 x 10 ⁻³
	50	m²/s	0.11 x 10 ⁻³
	100	m²/s	0.03 x 10 ⁻³
	200	m²/s	0.01 x 10 ⁻³
Properties fleece	Test Method	Unit	EnkaDrain™ TPL/1- 2s
Dynamic perforation resistance (cone drop) top fleece	EN ISO 13433	mm	42
Static puncture resistance (CBR)	EN ISO 12236	kN	1.6
Characteristic opening size (O90)	EN ISO 12956	µm	160
Water permeability normal to the plane (Vlh50)	EN ISO 11058	mm/s	160
Dimensions		Unit	EnkaDrain™ TPL/1- 2s
Width x Length		m	1 x 45
Length / diameter of roll		m	1.03 x 0.9
Gross weight		kg	34

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