

PRE-FABRICATED VERTICAL DRAINS (PVD)/ WICK DRAINS TECHNICAL DATASHEET

Composite Drain			W-90	W-100	W-110
Mass per Linear Meter	g/m		90	100	110
Thickness	mm	ASTM D5199	4.3	4.4	5.02
Width	mm		102	101	101
Tensile Strength	kN	ASTM D4595	2.4	2.7	2.67
Elongation at Break	%	ASTM D4595	41.08	41.50	56.12
Elongation at 0.5 kN	%	ASTM D4595	1	1	1.2
Strength at 10 Elongation at kN	kN	ASTM D4632	1.8	1.9	2
Core					
Thickness	mm	ASTM D5199	4.1	4.2	5.03
Tensile Strength	kN	ASTM D4595	1.6	1.9	1.69
UV Spectroscopy	nm		273 (PP)	273 (PP)	273 (PP)
Filter					
Mass per unit area	g/m ²	ASTM D5261	93	92	92
CBR Puncture Resistance	N	ASTM D6241	481.63	473	486.96
Tensile strength	kN	ASTM D4595	4.26	4.26	4.26
Tensile strength (Grab)	N	ASTM D4632	567.35	562.48	565.46
Trapezoidal tear strength	N	ASTM D4533	223.36	221.33	226.63
Water Permittivity (Normal to the plane)	s ⁻¹	ASTM D4491	0.29	0.29	0.28
Water Permeability (Normal to the plane)	cm/s	ISO-11058	0.013	0.013	0.013
*The characteristic opening size O95	µm	ASTM D4751	<86.63	<86.63	<86.63
UV Spectroscopy	nm		273 (PP)	273 (PP)	273 (PP)