

LINING & WATERPROOFING TECHNOLOGIES Lining

EDILMODULO XL5 /340 Needle-punched Clay Geosynthetic Barrier

Geotextile properties	Test method	Nominal value	Tolerance	Units
Cap non-woven PP – mass per unit area	EN ISO 9864	200	-20	g/m ²
Carrier woven PP – mass per unit area	EN ISO 9864	140	-10	g/m ²
HDPE Geomenbrana - thickness	ASTM D5199	0,2	-0,05	mm
Sodium Bentonite properties				
Montmorillonite content	XRD analysis	85	-5	%
Swell index	ASTM D5890	25	-1	ml/2g
Fluid loss	ASTM D5891	17	+1	ml
Finished GBR_C properties¹				
Bentonite mass per unit area (at 12% moisture)	EN 14196	5.000	-100	g/m ²
Bentonite mass per unit area (at 0% moisture)	EN 14196	4.400	-90	g/m ²
GCL mass per unit area (at 12% moisture)	EN 14196	5.340	-130	g/m ²
Hydraulic conductivity (k ₂₀)	ASTM D5887	5,0·10 ⁻¹¹	+8,0·10 ⁻¹²	cm/s
Index flux (q _i)	ASTM D6768	1,0·10 ⁻⁸	+8,0·10 ⁻⁹	(m ³ /m ²)/s
Tensile strength (T _{MAX}) – MD ¹	ASTM D6768	11,0	-2,0	kN/m
Tensile strength (T _{MAX}) – CMD ¹	ASTM D5887	11,0	-2,0	kN/m
Static puncture strength (F _P)	EN ISO 12236	2,2	-0,1	kN
Peel strength – MD ¹	ASTM D6496	600	-50	N/m
Internal shear strength	ASTM D6243	24		KPa
Roll size				
Thickness	EN ISO 9863-1	6,4	-0,6	mm
Dimensions (H x L)		1,0 X 5,0	-	m

Updated 01/01/19

¹MD: machine direction, CMD: cross machine direction

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