

LINING & WATERPROOFING TECHNOLOGIES Lining

EDILMODULO XP5/340 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	-14	g/m ²
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	-125	g/m ²
Bentonite mass per unit area (at 0% moisture)	EN 14196	4.400	-110	g/m ²
GCL mass per unit area (at 12% moisture)	EN 14196	5.340	-133	g/m ²
Hydraulic conductivity (k ₂₀)	ASTM D5887 EN 16416	1,0·10 ⁻¹¹	+8,0·10 ⁻¹²	m/s
Index flux (q _i)	ASTM D5887	5,0·10 ⁻⁹	+8,0·10 ⁻¹⁰	(m ³ /m ²)/s
Tensile strength (T _{MAX}) – MD	EN ISO 10319	11,0	-2,0	kN/m
Tensile strength (T _{MAX}) – CMD	EN ISO 10319	11,0	-2,0	kN/m
Strain at max load – MD/CMD	EN ISO 10319	≤ 30		%
Static puncture strength (F _P)	EN ISO 12236	2,2	-0,2	kN
Peel strength – MD ²	ASTM D6496	600	-50	N/m
Roll size				
Thickness	EN ISO 9863-1	6,4	-0,6	mm
Dimensions (H x L)		1,0 x 5,1	-	m

Updated 01/03/19

¹MD: machine direction, CMD: cross machine direction

²Peak value measured on 10 cm width specimen