LIST OF PARAMETERS FOR FAMILY OF GEOCOMPOSITES AND GEOMEMBRANES GREENFOL AND TECHFOL- according to the harmonized standard EN 13252

Property	Method of testing	Unit/Requirement	Value								
			GRENFOL 700	GREENFOL 850	GREENFOL 1000	GREENFOL DREN 700+110	GREENFOL DREN 850+110	GREENFOL DREN 1000+110	TECHFOL DREN 700+110	TECHFOL DREN 850+110	TECHFOL DREN 1000+110
tensile strength	PN EN ISO 10319	kN/m	MD 6.5 (-0.5)	MD 7.8 (-0.6)	MD 10 (-0.5)	MD 13.2 (-0.6)	MD 16 (-0.6)	MD 17.5 (-0.6)	MD 13.2 (-0.6)	MD 16 (-0.6)	MD 17.5 (-0.6)
			CMD 5.2 (-0.6)	CMD 6.1 (-0.7)	CMD7.5 (-0.7)	CMD 10 (-0.5)	CMD 11.6 (-0.6)	CMD 12.5 (-0.6)	CMD 10 (-0.5)	CMD 11.6 (-0.6)	CMD 12.5 (-0.6)
relative elongation at maximum load	PN EN ISO 10319	%	MD 53 (±4)	MD 51 (±4)	MD 56 (±5)	MD 48(±3)	MD 47(±2)	MD 50 (±2)	MD 48(±3)	MD 47(±2)	MD 50 (±2)
			CMD 34(±2)	CMD 34(±2)	CMD 33(±3)	CMD 36(±4)	CMD 35(±2.5)	CMD 41(±5)	CMD 36(±4)	CMD 35(±2.5)	CMD 41(±5)
capacity of water flow in the plane of the product 20kPa / 1.0 grad	PN EN ISO 12958	$(m^2/s) \times 10^{-3}$	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)	12.3 (-0.9)
ability to collect water	----------	l/m^2	approx 7	approx 7	approx 7	approx 7	approx 7	approx 7	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
static puncture resistance CBR	PN EN ISO 12236	kN	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	1.00 (-0.10)	1.00 (-0.10)	1.00 (-0.10)	1.00 (-0.10)	1.00 (-0.10)	1.00 (-0.10)
dynamic puncture resistance (falling cone method)	PN EN 13433	mm	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	35 (+7)	35 (+7)	35 (+7)	35 (+7)	35 (+7)	35 (+7)

characteristic pore size	PN EN ISO 12956	µm	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	140 (± 42)	140 (± 42)	140 (± 42)	140 (± 42)	140 (± 42)	140 (± 42)
compressive strength	PMS 967252:2013	kN/m^2	150 (-10)	225 (-10)	330 (-40)	155(-15)	220(-10)	325 (-30)	155(-15)	220(-10)	325 (-30)
surface mass	PN EN ISO 9864: 2007	g/m^2	700	850 (±85)	1000 (±100)	840 (±85)	990 (±100)	1140 (±115)	840 (±85)	990 (±100)	1140 (±115)
durability according to Annex B **aging resistance at atmospheric conditions**	PN EN 12224	----	cover within one month after installing	cover within one month after installing	cover within one month after installing	cover within w weeks after installing	cover within w weeks after installing	cover within w weeks after installing	cover within w weeks after installing	cover within w weeks after installing	cover within w weeks after installing
durability in accordance with Annex B **resistance to chemical degradation**	PN EN ISO 13438	-----	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C	The life expectancy of at least 25 years in natural soils with 4<pH<9 and in the soil with a temperature of <0°C

LIST OF PARAMETERS FOR GREENFOL GEOMEMBRANES - according to the harmonized standard EN 13967

Property	Method of testing	Unit/Requirement	Value		
			TECHFOL 700	TECHFOL 850	TECHFOL 1000
water resistance	PN EN 1928 Test A	2kPa/24h	Meets requirements of the test	Meets requirements of the test	Meets requirements of the test
resistance to static load	PN EN 12730	kg/24h	≥20	≥20	≥20
tensile strength	PN EN 12311-2	N/50mm	MD≥280	MD≥400	MD≥600
			CMD≥220	CMD≥330	CMD≥420
elongation at maximum tensile force	PN EN 12311-2	%	MD≥42	MD≥43	MD≥ 39
			CMD ≥26	CMD ≥25	CMD ≥25
water resistance after artificial aging	PN EN 1928 after testing PN EN 1296	2kPa/24h	Meets requirements of the test	Meets requirements of the test	Meets requirements of the test
water resistance after chemical exposure	PN EN 1928 after testing PN EN 1847	2kPa/24h	Meets requirements of the test	Meets requirements of the test	Meets requirements of the test
impact resistance	PN EN 12691	mm	≥800	≥1000	≥1000
resistance to tearing with the nail: goods without reinforcement	PN EN 12310-1	N	MD≥260	MD≥420	MD≥510
			CMD≥270	CMD≥400	CMD≥505
reaction to fire	PN EN 13501-1	____	F	F	F
compressive strength	PMS 967252:2013	kN/m^2	≥140	≥215	≥295
weight	PN EN 1849-2	g/m^2	700	800	1000