



PEI Recycled Polyester geotextile fabrics

Physical Properties		test method	unit												Tolerance	
Weight			g/m ²	150	200	300	400	500	700	800	1000	1200	1500	±	10%	
Thickness	2kPa	EN ISO 9863-1	mm	1.00	1.20	1.40	1.80	2.40	3.50	4.00	4.50	5.00	6.00	±	20%	
	20kPa	EN ISO 9863-2	mm	0.80	1.00	1.20	1.60	2.00	2.30	2.40	2.80	3.20	3.50	±	20%	
	200kPa	EN ISO 9863-3	mm	0.40	0.60	0.80	1.20	1.40	1.50	1.50	1.60	1.70	1.80	±	20%	
Mechanical Properties																
Tensile Strength	md	EN ISO 10319	kN/m	1.5	2.0	3.2	5.5	6.0	7.5	8.0	12.0	16.0	25.0	-	10%	
	cmd	EN ISO 10319	kN/m	2.0	2.5	3.8	7.5	9.0	11.0	12.0	14.0	20.0	30.0	-	10%	
Elongation at max load	md	EN ISO 10319	%	60	60	60	60	70	70	80	80	80	80	±	30%	
	cmd	EN ISO 10319	%	70	70	70	70	80	90	90	90	90	90	±	30%	
Energy index		EN ISO 10318	kJ/m ²	0.6	0.7	1.1	2.1	2.8	3.7	4.3	5.5	7.7	11.7	±	20%	
Static puncture resistance		EN ISO 12236	kN	0.3	0.4	0.8	1.0	1.4	1.8	1.9	2.2	3.8	5.5	-	10%	
Dynamic puncture resistance (cone drop test)		EN ISO 13433	mm	>50	4	30	20	10	6	4	2	1		+	20%	
Pyramid puncture resistance		EN 14574	N	n/a	n/a	n/a	250	300	450	500	600	700	800	-	20%	
Grad Resistance	md	ASTM D 4632	N	150	200	380	470	560	720	800	950	1100	1250	-	15%	
	cmd	ASTM D 4632	N	170	220	420	530	620	760	820	970	1150	1350	-	15%	
Grab Elongation	md	ASTM D 4632	%	70	70	70	70	70	70	70	70	70	70	±	20%	
	cmd	ASTM D 4632	%	80	80	80	80	80	80	80	80	80	80	±	20%	
Trapezoid tearing strength	md	ASTM D 4533	N	80	90	150	170	200	270	300	350	400	450	-	20%	
	cmd	ASTM D 4533	N	90	100	170	230	260	320	360	410	460	510	-	20%	
Hydraulic properties																
Velocity index VI		EN ISO 11058	mm/s	95	80	60	40	40	40	40	20	20	20	-	30%	
Permeability coefficient normal to the plane		EN ISO 10318	l/m ² s	95	80	60	40	40	40	40	20	20	20	-	30%	
Permittivity		EN ISO 10318	s ⁻¹	1.90	1.60	1.20	0.80	0.80	0.80	0.80	0.40	0.40	0.40			
Coefficient of permeability normal to the plane		EN ISO 10318	m/s	1.90	1.92	1.68	1.44	1.92	2.80	3.20	1.80	2.00	2.40			
Hydraulic gradient		EN ISO 10318		50	42	36	28	21	14	13	11	10	8			
Opening size		EN ISO 12956	µm	65	60	55	45	45	45	45	40	40	40	±	30%	
Durability properties																
Weathering resistance		EN 12224	To be covered within 1 days from the day of installation													
Oxydation resistance		EN ISO 13438	Forecast minimum durability of 5 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C The values given are an average obtained in our laboratories and in official testing insitutes The confidence level is 95%													
The is reserved to make changes at any time without notice																



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PEC (multi-coloured) Recycled Polyester geotextile fabrics

Physical Properties		test method	unit											Tolerance	
Weight			g/m ²	150	200	300	400	500	700	800	1000	1200	1500	±	10%
Thickness	2kPa	EN ISO 9863-1	mm	1.10	1.30	2.00	2.20	2.80	3.20	3.50	4.00	5.50	6.00	±	20%
	20kPa	EN ISO 9863-2	mm	0.80	1.00	1.30	1.80	2.20	2.80	3.00	3.50	3.80	4.00	±	20%
	200kPa	EN ISO 9863-3	mm	0.60	0.70	0.90	1.20	1.50	2.00	2.30	2.80	3.00	3.30	±	20%
Mechanical Properties															
Tensile Strength	md	EN ISO 10319	kN/m	0.8	1.0	1.4	2.5	3.0	7.0	8.0	12.0	16.0	18.0	-	10%
	cmd	EN ISO 10319	kN/m	1.2	1.4	2.0	4.0	4.5	12.0	14.0	16.0	20.0	22.0	-	10%
Elongation at max load	md	EN ISO 10319	%	70	70	80	80	80	80	80	80	80	80	±	30%
	cmd	EN ISO 10319	%	70	70	80	80	80	80	80	80	80	80	±	30%
Energy index		EN ISO 10318	kJ/m ²	0.4	0.4	0.7	1.3	1.5	3.8	4.4	5.6	7.2	8.0	±	20%
Static puncture resistance		EN ISO 12236	kN	0.1	0.2	0.3	0.6	0.8	1.5	1.9	2.2	3.8	4.0	-	10%
Dynamic puncture resistance (cone drop test)		EN ISO 13433	mm	>50	>50	35	25	18	8	6	2	2	2	+	20%
Pyramid puncture resistance		EN 14574	N	n/a	300	400	500	600	800	800	1100	1200	1400	-	20%
Grad Resistance	md	ASTM D 4632	N	75	95	130	230	280	650	745	1100	1200	1400	-	15%
	cmd	ASTM D 4632	N	85	100	145	290	325	865	1000	1200	1400	1500	-	15%
Grab Elongation	md	ASTM D 4632	%	70	70	70	80	80	80	80	80	80	80	±	20%
	cmd	ASTM D 4632	%	80	80	80	90	90	90	90	90	90	90	±	20%
Trapezoid tearing strength	md	ASTM D 4533	N	38	48	67	83	100	230	265	400	530	600	-	20%
	cmd	ASTM D 4533	N	46	53	76	120	135	360	420	480	600	660	-	20%
Hydraulic properties															
Velocity index VI		EN ISO 11058	mm/s	100	90	60	40	25	20	18	13	10	8	-	30%
Permeability coefficient normal to the plane		EN ISO 10318	l/m ² s	100	90	60	40	25	20	18	13	10	8	-	30%
Permittivity		EN ISO 10318	s ⁻¹	2.00	1.80	1.20	0.80	0.50	0.40	0.36	0.26	0.20	0.16		
Coefficient of permeability normal to the plane		EN ISO 10318	m/s	2.20	2.34	2.40	1.76	1.40	1.28	1.26	1.04	1.10	0.96		
Hydraulic gradient		EN ISO 10318		45	38	25	23	18	16	14	13	9	8		
Opening size		EN ISO 12956	µm	65	60	55	50	45	40	38	33	30	30	±	30%
Durability properties															
Weathering resistance		EN 12224	To be covered within 1 days from the day of installation												
Oxydation resistance		EN ISO 13438	Forecast minimum durability of 5 years for every application in natural grounds with 4<pH<9 and soil temperature <25°C The values given are an average obtained in our laboratories and in official testing insitutes The confidence level is 95%												
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