



# PPX Polypropylene geotextile fabrics

Physical Properties		test method	unit											Tolerance	
Weight			g/m <sup>2</sup>	150	200	300	400	500	700	800	1000	1200	1500	±	10%
Thickness	2kPa	EN ISO 9863-1	mm	1.20	1.30	1.80	2.50	3.30	4.00	4.40	5.50	7.00	8.50	±	20%
	20kPa	EN ISO 9863-1	mm	1.00	1.10	1.60	2.00	2.70	3.30	3.80	5.00	6.30	7.80	±	20%
	200kPa	EN ISO 9863-1	mm	0.80	0.90	1.20	1.60	2.00	2.50	2.90	3.90	4.70	6.30	±	20%
<b>Mechanical Properties</b>															
Tensile Strength	md	EN ISO 10319	kN/m	4.0	5.0	10.0	14.0	18.0	26.5	29.0	32.0	34.0	37.0	-	15%
	cmd	EN ISO 10319	kN/m	4.5	7.0	14.0	19.0	26.0	37.5	43.0	50.0	53.0	57.0	-	15%
Elongation at max load	md	EN ISO 10319	%	70	80	80	80	85	90	90	95	95	95	±	25%
	cmd	EN ISO 10319	%	80	85	85	85	90	95	95	100	100	100	±	25%
Energy index		EN ISO 10318	kJ/m <sup>2</sup>	1.6	2.5	5.0	6.8	9.6	14.8	16.7	20.0	21.2	22.9	±	25%
Static puncture resistance		EN ISO 12236	kN	1.0	1.2	2.0	2.8	3.8	5.3	5.8	7.2	9.0	12.0	-	10%
Dynamic puncture resistance (cone drop test)		EN ISO 13433	mm	22	20	13	9	6	3	2	0	0	0	+	25%
Pyramid puncture resistance		EN 14574	N	n/a	150	300	340	400	600	700	1100	1400	1600	-	20%
Grad Resistance	md	ASTM D 4632	N	390	400	700	740	780	860	890	950	980	1040	-	15%
	cmd	ASTM D 4632	N	420	450	750	810	870	980	1030	1130	1180	1280	-	15%
Grab Elongation	md	ASTM D 4632	%	70	90	90	90	90	90	90	90	90	90	±	20%
	cmd	ASTM D 4632	%	90	100	100	100	100	100	100	100	100	100	±	20%
Trapezoid tearing strength	md	ASTM D 4533	N	150	170	280	320	360	440	480	560	600	650	-	20%
	cmd	ASTM D 4533	N	170	210	320	360	400	480	520	600	640	720	-	20%
<b>Hydraulic properties</b>															
Velocity index VI		EN ISO 11058	mm/s	80	70	35	25	20	20	20	20	20	20	-	30%
Permeability normal to the plane		EN ISO 10318	l/m <sup>2</sup> s	80	70	35	25	20	20	20	20	20	20	-	30%
Permittivity		EN ISO 10318	s <sup>-1</sup>	1.60	1.40	0.70	0.50	0.40	0.40	0.40	0.40	0.40	0.40		
Coefficient of permeability normal to the plane		EN ISO 10318	m/s	1.92	1.82	1.26	1.25	1.32	1.60	1.76	2.20	2.80	3.40		
Hydraulic gradient		EN ISO 10318		42	38	28	20	15	13	11	9	7	6		
Opening size		EN ISO 12956	µm	80	70	55	50	50	45	45	40	40	40	±	30%
<b>Durability properties</b>															
Weathering resistance		EN 12224		To be covered within 1 day from the day of installation											
Oxydation resistance		EN ISO 13438		Forecast minimum durability of 5 years for all non-reinforcement 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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