

Typical Physical Properties of CEREX® Fabrics

CEREX® products are nonwoven fabrics made by spinning and autogenously bonding continuous filaments of nylon (PA66) into a flat, strong and crisp fabric. Autogenous bonding is achieved by exposing the nylon web to a chemically activating gas phase that is later removed from the web. The fabric is available in weights ranging from 0.30 osy (10 g/m²) to 2.0 osy (68g/m²) in widths up to 120 inches (3 meters).

English Units

Fabric Weight	Thickness (ProGage)	Grab Strength				Trap Tear		Burst Strength	Air Perm. (Tex Test)
		MD		CD		MD	CD		
osy	mils	lbs.	% elong.	lbs.	% elong.	lbs.	lbs.	psi	cfm/ft ²
0.30	3.0	8	41	4	63	3	5	10	1974
0.40	3.0	12	44	7	56	4	7	13	1495
0.50	3.7	16	44	9	59	4	7	16	1179
0.60	3.9	20	47	12	57	5	8	20	981
0.70	3.8	24	47	15	56	6	9	24	800
0.85	4.0	31	48	20	59	7	10	29	632
1.00	5.4	37	50	24	58	8	11	35	511
1.50	6.9	59	55	39	63	10	15	53	292
2.00	8.3	85	62	58	70	13	22	71	189
ASTM D3776	ASTM D5729	ASTM D5034				ASTM D5733		ASTM D3786	ASTM D737

Metric Units

Fabric Weight	Thickness (ProGage)	Grab Strength				Trap Tear		Burst Strength	Air Perm. (Tex Test)
		MD		CD		MD	CD		
gsm	mm	N	% elong.	N	% elong.	N	N	kPa	m ³ /m ² /s
10	0.08	35.6	41	17.8	63	13.3	22.2	68.9	10.03
14	0.08	53.4	44	31.1	56	17.8	31.1	89.6	7.59
17	0.09	71.2	44	40.0	59	17.8	31.1	110.3	5.99
20	0.10	89.0	47	53.4	57	22.2	35.6	137.9	4.98
24	0.10	106.8	47	66.7	56	26.7	40.0	165.5	4.06
29	0.10	137.9	48	89.0	59	31.1	44.5	199.9	3.21
34	0.14	164.6	50	106.8	58	35.6	48.9	241.3	2.60
51	0.18	262.4	55	173.5	63	44.5	66.7	365.4	1.48
68	0.22	378.1	62	258.0	70	57.8	97.9	489.5	0.96
ASTM D3776	ASTM D5729	ASTM D5034				ASTM D5733		ASTM D3786	ASTM D737

Typical Roll Sizes and Weights of CEREX® Fabrics

Fabric Weight		Max. Roll Width		Regular Size					
				Roll Length		Approx. Roll Diameter		Approx. Roll Weight	
osy	gsm	inches	mm	yards	m	inches	mm	lbs	kg
0.30	10	117	2'972	3'000	2'743	15	381	183	83
0.40	14	120	3'048	3'000	2'743	17	432	250	113
0.50	17	120	3'048	3'000	2'743	19	483	313	142
0.60	20	120	3'048	3'000	2'743	20	508	375	170
0.70	24	121	3'073	3'000	2'743	21	533	441	200
0.85	29	122	3'099	3'000	2'743	23	584	540	245
1.00	34	122	3'099	2'000	1'829	20	508	424	192
1.50	51	122	3'099	2'000	1'829	25	635	641	291
2.00	68	124	3'150	1'000	914	20	508	431	196

Fabric Weight		Max. Roll Width		Jumbo Size					
				Roll Length		Approx. Roll Diameter		Approx. Roll Weight	
osy	gsm	inches	mm	yards	m	inches	mm	lbs	kg
0.30	10	117	2'972	10'000	9'144	27	686	609	276
0.40	14	120	3'048	7'000	6'401	25	635	583	264
0.50	17	120	3'048	7'000	6'401	28	711	729	331
0.60	20	120	3'048	6'000	5'486	28	711	750	340
0.70	24	121	3'073	6'000	5'486	30	762	882	400
0.85	29	122	3'099	5'000	4'572	30	762	900	408
1.00	34	122	3'099	3'000	2'743	25	635	635	288
1.50	51	122	3'099	N/A	N/A	N/A	N/A	N/A	N/A
2.00	68	124	3'150	N/A	N/A	N/A	N/A	N/A	N/A