



Typical Physical Properties of SpectraMax™ Nylon Fabrics

SpectraMax™ products are nonwoven fabrics made by spinning and thermally bonding 2 denier continuous filaments of nylon 6.6 into a drapable, conformable, textile like fabric. **SpectraMax™** fabrics have a "herring bone" pattern. Currently available in weights range from 0.4 ounces per square yard (osy) to 4.0 ounces per square yard in widths up to 120 inches.

Filament Geometry	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/ft2	
Round	0.40	4.0	6	51	4	56	2	3	8	1171	
Round	0.50	5.0	10	61	7	66	3	4	15	1048	
Round	0.70	6.0	16	65	12	68	4	6	18	657	
Round	1.00	8.0	29	68	19	73	6	8	27	365	
Round	1.20	9.0	40	73	25	76	8	12	31	311	
Round	1.30	10.0	38	75	27	77	8	13	31	286	
Round	1.50	10.0	45	76	32	78	9	15	34	237	
Round	1.75	12.0	61	80	43	84	11	19	44	197	
Round	2.00	13.0	71	80	52	83	12	21	51	137	
Round	2.50	15.0	91	85	64	91	11	18	66	100	
Round	3.00	17.0	111	87	82	90	16	20	80	81	
Round	4.00	22.0	122	86	105	98	33	49	94	58	
ASTM	D3776	D5729	D5034				D5733		D3786	D737	

Translation into European values:

Filament Geometry	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	m3/m2/s	
Round	13.56	0.10	26.7	51	17.8	56	8.9	13.3	55.2	5.95	
Round	16.95	0.13	44.5	61	31.1	66	13.3	17.8	103.4	5.32	
Round	23.73	0.15	71.2	65	53.4	68	17.8	26.7	124.1	3.34	
Round	33.91	0.20	129.0	68	84.5	73	26.7	35.6	186.2	1.85	
Round	40.69	0.23	177.9	73	111.2	76	35.6	53.4	213.7	1.58	
Round	44.08	0.25	169.0	75	120.1	77	35.6	57.8	213.7	1.45	
Round	50.86	0.25	200.2	76	142.3	78	40.0	66.7	234.4	1.20	
Round	59.34	0.30	271.3	80	191.3	84	48.9	84.5	303.4	1.00	
Round	67.81	0.33	315.8	80	231.3	83	53.4	93.4	351.6	0.70	
Round	84.77	0.38	404.8	85	284.7	91	48.9	80.1	455.1	0.51	
Round	101.72	0.43	493.8	87	364.8	90	71.2	89.0	551.6	0.41	
Round	135.63	0.56	542.7	86	467.1	98	146.8	218.0	648.1	0.29	
ASTM	D3776	D5729	D5034				D5733		D3786	D737	

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