



TYPICAL PHYSICAL PROPERTIES OF PBN-II® FABRICS

PBN-II® products are nonwoven fabrics made by spinning and thermally bonding continuous filaments of nylon into drapable, conformable, textile-like fabric. PBN-II® fabrics have a cross hatch bond pattern. Available weights ranging from 0.25 ounces per square yard (8 grams per square meter) to 4.0 ounces per square yard (136 grams per square meter) in widths up to 120 inches (3 meters).

Filament Geometry	Fabric Weight ¹		Average Thickness ²		Grab Tensile Strength ³				Trapezoid Tear Strength ⁴				Burst Strength ⁵		Air Permeability ⁶	
					Machine Direction		Cross Direction		Machine Direction		Cross Direction					
	osy	gsm	mil	mm	lbs	N	lbs	N	lbs	N	lbs	N	psi	kPa	cfm/ft ²	m ³ /m ² /sec
Round	0.3	10	3.9	0.10	7	31	4	18	2.6	12	1.4	6	8	55	1384	7.0
Round	0.4	14	4.5	0.11	10	44	6	37	3.4	15	2.0	9	10	69	1223	6.2
Round	0.5	17	5.5	0.14	13	58	8	36	4.3	19	2.6	12	13	90	1082	5.5
Round	0.7	24	7.2	0.18	20	89	13	58	6.3	28	3.8	17	19	131	849	4.3
Round	0.85	29	8.0	0.20	26	116	17	76	6.9	31	4.0	18	24	165	712	3.6
Round	1.0	34	9.0	0.23	32	142	21	94	9.6	43	5.7	25	28	193	602	3.1
Round	1.5	51	12.2	0.31	53	236	37	165	16.0	71	11.0	49	44	303	377	1.9
Round	2.0	68	14.2	0.36	76	338	53	236	23.0	103	15.0	67	61	420	276	1.4
Round	2.5	85	15.9	0.40	99	441	70	312	31.0	138	20.0	89	79	544	214	1.1
Round	3.0	102	18.4	0.47	122	543	86	383	38.0	169	25.0	111	97	668	153	0.8
Round	4.0	136	21.8	0.55	157	699	118	525	48.0	258	44.0	196	117	806	111	0.6
Trilobal	0.25	8	4.2	0.11	5	21	3	13	2.3	10	1.6	7	8	56	1439	7.3
Trilobal	0.3	10	4.7	0.12	7	30	4	17	2.6	12	1.1	5	9	62	1383	7.0
Trilobal	0.85	29	9.2	0.23	26	115	17.2	77	8.6	38	4.8	21	24	165	728	3.7
Trilobal	1.0	34	10.3	0.26	32	141	21.3	95	10.4	46	5.9	26	29	193	606	3.1

¹ASTM D-3776-85; ²ASTM D-1777-80; ³ASTM D-5034-90; ⁴ASTM D-1117-80; ⁵ASTM D-3786-87; ⁶ASTM D737-75

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