Paper Types

Some of the most commonly used paper types are briefly described below.

1. Bond and Writing

This paper is reserved for letterhead and business forms. It is paper that distinguishes itself in that it is especially formulated to function well on typewriters, readily accepts the ink from a pen, and erases easily.

2. Book & Offset

These papers are the workhorses of the printing industry, used mostly in textbook and commercial applications. They come in a wide range of weights and bulk and are usually of antique or smooth finishes. Offset papers are additionally sized to adjust to surface picking and to the slight moisture present in offset printing.

3. Coated Papers

These papers are basically Book papers and Offset papers to which a glossy or mat coating has been added. They are usually geared to high quality markets because their glossy or mat finishes can produce striking end results.

4. Text and Cover

Text and matching Cover papers are distinguished by their unusual textures and special colors. Because of these papers' versatility, they are much favored by graphic designers.

5. Index, Bristols and Tags

These grades are known for their receptivity to ink and for their rigidity. Index and Bristols are a good choice wherever inexpensive stiff stock is required.

Tag paper is used mostly for manufacturing tags.

6. Carbonless Papers

These papers are treated with a special chemical coating so as to generate a copy under pressure from a pen or pencil, etc they function much like carbon paper but without the carbon interleaves.

They are either:

- a. Coated Back (CB) transmitting pressure to the sheet underneath,
- b. Coated Front (CF) accepting pressure, or
- c. Coated Back and Front (CFB) that receive and transmit pressure simultaneously.

7. Specialty Papers

Various papers used for specific applications such as: pressure sensitive, gummed, carbon etc.

Basis Weight Comparisons

Basis weight is simply the total weight of a particular paper when weighing 500 sheets at the basis, or parent size. So, 24 # Text is 500 25 x 38" sheets of text paper having a total weight of 24 pounds.

This chart indicates the weight caliper one would require, if one was to substitute a different type of paper than originally desired.

Example: If a 20 lbs Bond was unavailable, a 51 lbs Book could be substituted.

- Basis Weights in bold.
- All weights are for 500 sheet reams
- For Canadian M Weights, simply multiply the Basis Weight reams by 2

	Bond 17 X 22	Book 25 X 38	Cover 20 X 26	Bristol 22 1/2 X 28 1/2	Index 25 1/2 X 30 1/2	Tag 24 X 36
Bond	13	23	18	22	27	30
Ledger	16	41	22	27	33	37
Mimeo	20	51	28	34	42	46
Duplicator	24	61	33	41	50	56
Writing	28	71	39	48	58	64
	32	81	45	55	67	74
	36	91	50	62	75	82
	40	102	56	69	83	93
	44	112	61	75	92	102

Book	12	30	16	20	25	27
Offset	16	40	21	27	32	36
Text	18	45	24	30	37	41
	20	50	27	34	41	45
	24	60	32	40	49	55
	28	70	38	47	57	64
	31	80	43	53	66	73
	35	90	48	60	74	82
	39	100	53	57	81	91
	47	120	65	80	98	109
	59	150	80	100	123	136
Cover	29	73	40	49	69	66
	36	91	50	62	75	82
	43	110	60	74	90	100
	47	119	65	80	97	108
	58	146	80	99	120	134
	65	164	90	111	135	149
	72	183	100	124	150	166
Bristol	39	100	54	67	81	91
	47	120	65	80	90	109
	58	148	8,1	100	121	135
	70	176	97	120	146	162
	82	207	114	140	170	189
	93	237	130	160	194	216
	105	267	146	180	218	242
	11 <i>7</i>	296	162	200	243	269

Index	43	110	60	74	90	100
Bristol	53	135	74	91	110	122
	67	170	93	115	140	156
	82	208	114	140	170	189
	105	267	146	182	220	244

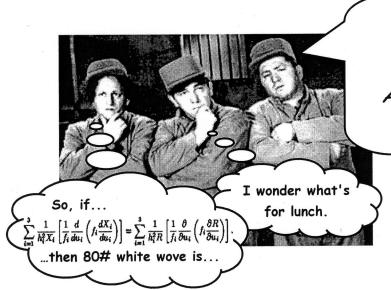
Tag	43	110	60	74	90	100
	54	137	75	93	113	125
	65	165	90	111	135	150
	76	192	105	130	158	175
	. 87	220	120	148	180	200
	109	275	151	186	225	250
	130	380	181	222	270	300

Average Paper Thickness

		•			
Coated [*]	Text		Uncoated	d Text	
Basis Weight	Caliper	В	asis Weight	Caliper	
60 #	0.003		50 #	0.004	
70 #	0.0035		60 #	0.0045	
80 #	0.004		70 #	0.005	
100 #	0.0055		80 #	0.006	
120#	0.006		100 #	0.0075	
4.			120 #	0.009	
Coated C	over		Uncoated	Cover	
Basis Weight	Caliper	В	Basis Weight	Caliper	
50 #	0.005		50 #	0.007	
60 #	0.006		65 #	0.009	
65 #	0.0065		80 #	0.0105	
80 #	0.008		100 #	0.0135	
100 #	0.01		130 #	0.018	
110 #	0.011				
120 #	0.012				
1					

Basis Weight is the weight of one ream (five hundred sheets) of a standard size (basis, or parent) sheet of a particular paper stock.

Caliper is the average thickness of a typical sheet as measured by a micrometer. It will vary between types of paper stock, as well as being effected by factors, such as paper finish, inconsistent bulk within the sheet, and ambient humidity. For this reason several measurements should be taken across the sheet of which an average used to determine paper thickness.



Hot Diggety, Guys!

I get it!

A Ream is 500 Sheets!

Gee, that's a lot of beds!

Does that include the pillows?

GUIDE TO PRINTING PAPER GRADES

GRADE AND BASIC SIZE	COMMON NAMES	FEATURES	SURFACES
BOND	Bond, Ditto, Erasable, Forms,	Light weight, Matching Envelopes	Cockle, Laid, Linen, Parchment, Ripple,
17 x 22	Ledger, Mimeo, Onionskin, Photocopy, Rag, Writing	Pastels and Light colors, Watermarked	Wove
	STANDARD SIZES	WEIGHTS	USES
	8½ x 11, 8½ x 14, 11 x 17, 17 x 22	20, 24	Certificates, Directories Flyers, Forms, Handbills, Letterheads, Newsletters, Photocopy, Quick Printing Resumés

CDADE AND			
GRADE AND BASIC SIZE	COMMON NAMES	FEATURES	SURFACES
UNCOATED BOOK 25 x 38	Book, Offset, Opaque	Easy folding, Wide range of colors	Antique, Smooth, Vellum, Wove
	STANDARD SIZES	WEIGHTS	USES

17½x22½, 23 x 35 50, 60, 70, 80 Books, Brochures,
25 x38 Calendars, Catalogs,
Direct Mail, Flyers,
Manuals, Newsletters,
Programs, Rare Books

GUIDE TO PRINTING PAPER GRADES

RADE AND BASIC SIZE	COMMON NAMES	FEATURES	SURFACES
TEXT 25 x 38	Text	Deckle edged, Textured; Wide range of colors	Antique, Embossed, Felt, Laid, Linen, Vellum
	STANDARD SIZES	WEIGHTS	USES
	23 x 35, 25 x 38	80, 100	Annual Reports, Announcements, Art Reproductions, Books, Brochures, Calendars, Posters, Self-mailers

GRADE AND BASIC SIZE	COMMON NAMES	FEATURES	SURFACES
COATED BOOK 25 x 38	Coated Offset, Dull, Enamel, Gloss, Matte, Slick	Good ink holdout, Ink gloss, Smooth surfaces; Usually white only	Cast, Dull, Embossed, Gloss, Matte
	STANDARD SIZES	WEIGHTS	USES
	19 x 25, 23 x 35 25 x 38	60, 70, 80, 100	Annual Reports, Books, Brochures, Calendars, Catalogs, Directories, Direct Mail, Magazines, Newsletters, Newspaper inserts, Posters



GUIDE TO PRINTING PAPER GRADES

GRADE	AND		
	OTON		

BASIC SIZE

COMMON NAMES

FEATURES

SURFACES

COVER

20 x 26

Bristol, ClS, C2S,

Durable, Stiff

Uncoated: Antique

Cast Coat, Cover

Strong

Embossed, Felt, Laid, Linen, Smooth, Vellum,

Wove

Text cover

Coated: Cast, Dull,

Embossed, Gloss, Matte

STANDARD SIZES

WEIGHTS

USES

20 x 26, 23 x 35

65, 80, 100

Business cards, Calendars,

Covers for Annual Reports, Books, Catalogs and

Directories, Folders,

Greeting cards, Invitations,

Menus, Point of purchase displays, Post cards, Posters

Table, Tents, Tickets

GRADE AND

BASIC SIZE

COMMON NAMES

FEATURES

SURFACES

BOARD

Blanks, Bristols, Board, Card, Chip,

Index, Plate,

Stiff, Strong, Thick, Variety of

colors and surfaces

Coated, Embossed, Plate, Vellum, Water resistant

STANDARD SIZES

WEIGHTS

USES

22 x 28, 28 x 44

4, 6, 8, 10, 14

Business reply cards, Covers, Displays, File

folders, Paper boxes, Signs, Screen printed posters, Tags,

Tickets

BASIS WEIGHT

Basis weight is the weight in pounds of a ream (500 sheets) of parto its basic size in inches. It represents the weight for a give area. Basic size or parent size is the sheet size in inches that I adapted through practice and usage. It differs for various to paper. The basic sizes of most commonly used stocks are as follows:

Bond 17 x 22
Book 25 x 38
Cover 20 x 26
Bristol 22½ x 28½

Basis weight is sometimes specified per 1,000 sheets. A Book paper a basis weight of 60 lb. is designated as $25 \times 38 - 120M$, where stands for 1,000 sheets of paper which in this case would weigh 120×100