CONVERSION CHARTS for PAPER (GSM TO BASIS WEIGHT)

PAPER INDUSTRY WEIGHT COMPARISONS. Paper is available for purchase in a variety of sizes, finishes, colors, thickness (or caliper) and weights. Understanding and being able to compare the difference is often the key to selecting the best paper for your project. As there are many techniques for measuring paper weights, the process used for comparison is not always easy. In spite of the many techniques used to measure paper weight, (metric vs. pounds) paper can still be compared using 'equivalent weights'. The various measures can easily be synchronized by using a 'conversion formula'. A practical way to show the results for comparison is to create a conversion

The **GSM** (grams per square meter) tells paper consumers how dense a paper is. This is used as a baseline measurement in Metrics and as a result it is still used as the 'standard size' when comparing the weights of different sized papers. Manufacturers of Digital Printing Equipment today utilize this measure as a guideline for machine settings. GSM is used as the Metric Standard when comparing the weights of papers.

BASIS WEIGHT

Paper in the United States is categorized by its basis weight. This measure of weight is expressed in terms of pounds. The basis weight is the weight of 500 sheets (one ream) of the paper in its basic or parent size. As different weights and types of paper are manufactured in different sized sheets, this makes it particularly difficult to compare the many types of paper.

GSM SORT to BASIS WEIGHT (DADER)

GSM SORT to BASIS WEIGHT (PAPER)									
GSM	Basis	Weight		GSM	Basis	Weight			
25	17	Text		160	108	Text			
30	20	Text		162	60	Cover			
30	8	Bond		163	90	Index			
34	9	Bond		163	100	Tag			
36	24	Text		170	63	Cover			
44	30	Text		175	80	Bristol			
45	12	Bond		176	65	Cover			
49	33	Text		178	120	Text			
49	13	Bond		179	66	Cover			
52	35	Text		184	68	Cover			
59	40	Text		189	70	Cover			
60	16	Bond		197	90	Bristol			
64	43	Text		199	110	Index			
67	45	Text		203	125	Tag			
74	50	Text		216	80	Cover			
75	20	Bond		219	100	Bristol			
81	55	Text		227	84	Cover			
89	60	Text		243	90	Cover			
90	24	Bond		244	150	Tag			
104	70	Text		253	I40	Index			
105	28	Bond		263	120	Bristol			
108	40	Cover		270	100	Cover			
III	75	Text		285	175	Tag			
118	80	Text		298	110	Cover			
120	32	Bond		307	140	Bristol			
125	57	Bristol		307	170	Index			
133	90	Text		325	120	Cover			
135	50	Cover		326	200	Tag			
135	36	Bond		351	160	Bristol			
144	97	Text		352	130	Cover			
147	67	Bristol		395	180	Bristol			
148	100	Text		398	220	Index			
149	55	Cover		407	250	Tag			
150	40	Bond		439	200	Bristol			
155	105	Text		488	300	Tag			

BASIS WEIGHT SORT to GSM (PAPER)

Basis V	Weight	GSM	Basis V	Weight	GSM
8	Bond	30	120	Cover	325
9	Bond	34	130	Cover	352
12	Bond	45	90	Index	163
13	Bond	49	110	Index	199
16	Bond	60	140	Index	253
20	Bond	75	170	Index	307
24	Bond	90	220	Index	398
28	Bond	105	100	Tag	163
32	Bond	120	125	Tag	203
36	Bond	135	150	Tag	244
40	Bond	150	175	Tag	285
57	Bristol	125	200	Tag	326
67	Bristol	I47	250	Tag	407
80	Bristol	175	300	Tag	488
90	Bristol	197	17	Text	25
100	Bristol	219	20	Text	30
120	Bristol	263	24	Text	36
140	Bristol	307	30	Text	44
160	Bristol	351	33	Text	49
180	Bristol	395	35	Text	52
200	Bristol	439	40	Text	59
40	Cover	108	43	Text	64
50	Cover	135	45	Text	67
55	Cover	I49	50	Text	74
60	Cover	162	55	Text	81
63	Cover	170	60	Text	89
65	Cover	176	70	Text	104
66	Cover	179	75	Text	III
68	Cover	184	80	Text	118
70	Cover	189	90	Text	133
80	Cover	216	97	Text	I44
84	Cover	227	100	Text	I48
90	Cover	243	105	Text	155
100	Cover	270	108	Text	160
110	Cover	298	120	Text	178

(800) 772-2001

The values in the tables are intended to serve as a guide only. They should not be used as exact specifications as there can be variances due to other characteristics of the paper. Please consult a Paper Mart Specialist to be certain that you are selecting the correct paper for your project.