

## GSM CONVERSION CHARTS for SYNTHETIC SUBSTRATES

CONVERTS THE CALIPER OF SYNTHETIC SUBSTRATES to an EQUIVALENT GSM CALCULATION

### GSM

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 the Metric Standard versus Basis Weight.

### CALIPER

Caliper refers to the thickness of a sheet of paper. Commonly measured in thousandths of an inch, it is also known as 'MILS' or 'Points'. There is a general relationship between caliper and basis weight – the greater the caliper (the thicker the paper), the greater the paper weight.

#### (GSM SORT) GSM TO CALIPER for SYNTHETIC SUBSTRATES

GSM	MIL/PTS	SYNTHETIC SUBSTRATE
97	6	Teslin - SP 600
115	7	Teslin - SP 700
125	4	Nekoosa - Thermanent
134	8	Teslin - SP 800
135	5	Nekoosa - Synaps Digital XM
160	5	Nekoosa - Thermanent
167	10	Teslin - SP 1000
175	10	Teslin - SPID 1000
183	10.5	Teslin - Digital 1000
189	8	Spinnaker - DiversiPrint 60# Permanent - (Gloss, Ultra Matte)
195	6.7	Nekoosa - Thermanent PS Permanent - White Gloss
199	8	Spinnaker - DiversiPrint 60# Cover-up -(High Gloss, Ultra Matte)
200	8	Spinnaker - DiversiPrint 60# Removable - (Gloss, Ultra Matte)
205	5.4	Nekoosa - Thermanent PS Permanent - Clear Frosted
205	6.1	Nekoosa - Thermanent PS Permanent - Clear Gloss
206	12	Teslin - SP 1200
209	6.3	Nekoosa - Thermanent PS Low-Tack - Clear Gloss
210	6.2	Nekoosa - Thermanent PS Permanent - White Matte
216	6.2	Nekoosa - Thermanent PS Low-Tack - White Matte
218	10	NewPage - Productolith Pts - Semi Gloss - CIS
230	8	Nekoosa - Indigo Durable Synthetic
230	8	Nekoosa - Synaps Digital XM
230		Nekoosa - Synaps PS
230	10.85	Nekoosa - ThermoTac - Ultra-Removable White
236	10	NewPage - Productolith Pts - Semi Gloss - C2S

#### GSM MIL/PTS SYNTHETIC SUBSTRATE

GSM	MIL/PTS	SYNTHETIC SUBSTRATE
243	14	Teslin - SP 1400
244	10.85	Nekoosa - ThermoTac - Ultra-Removable Frosty Clear
244	9.5	Spinnaker - DiversiPrint White Matte Laser Vinyl
252	14	Teslin - SPID 1400
256	12	NewPage - Productolith Pts - Semi Gloss - CIS
258	9.8	Spinnaker - DiversiPrint Clear Matte Laser Vinyl
262	8	Nekoosa - Thermanent
277	12	NewPage - Productolith Pts - Semi Gloss - C2S
290	14	Teslin - HD 1400
292	10	Nekoosa - Indigo Durable Synthetic
297	11.2	Nekoosa - ThermoTac - Removable Frosty Clear
300	10	Nekoosa - Synaps Digital XM
311	14	NewPage - Productolith Pts - Semi Gloss - CIS
314	11.6	Nekoosa - ThermoTac - Removable White
322	14	NewPage - Productolith Pts - Semi Gloss
345	12	Nekoosa - Indigo Durable Synthetic
352	11.45	Spinnaker - DiversiPrint White Vinyl for NexPress
365	11	Nekoosa - Thermanent
365	11.95	Spinnaker - DiversiPrint Clear Vinyl for NexPress
450	14	Nekoosa - Synaps Digital XM
500	14	Nekoosa - Thermanent
620	11	Nekoosa - MagneCote
688	13	Nekoosa - MagneCote
903	17	Nekoosa - MagneCote

#### (VENDOR SORT) GSM TO CALIPER for SYNTHETIC SUBSTRATES

##### Nekoosa

GSM	MIL/PTS	SYNTHETIC SUBSTRATES
230	8	Indigo Durable Synthetic
292	10	Indigo Durable Synthetic
345	12	Indigo Durable Synthetic
620	11	MagneCote
688	13	MagneCote
903	17	MagneCote
135	5	Synaps Digital XM
230	8	Synaps Digital XM
300	10	Synaps Digital XM
450	14	Synaps Digital XM
230		Synaps PS
125	4	Thermanent
160	5	Thermanent
262	8	Thermanent
365	11	Thermanent
500	14	Thermanent
209	6.3	Thermanent PS Low-TackClear Gloss
216	6.2	Thermanent PS Low-TackWhite Matte
205	5.4	Thermanent PS Permanent Clear Frosted
205	6.1	Thermanent PS Permanent Clear Gloss
195	6.7	Thermanent PS PermanentWhite Gloss
210	6.2	Thermanent PS PermanentWhite Matte
297	11.2	ThermoTacRemovable Frosty Clear
314	11.6	ThermoTacRemovable White
244	10.85	ThermoTacUltra-Removable Frosty Clear
230	10.85	ThermoTacUltra-Removable White

##### NewPage

GSM	MIL/PTS	SYNTHETIC SUBSTRATES
322	14	Productolith Pts - Semi Gloss
218	10	Productolith Pts - Semi Gloss - CIS
256	12	Productolith Pts - Semi Gloss - CIS
311	14	Productolith Pts - Semi Gloss - CIS
236	10	Productolith Pts - Semi Gloss - C2S
277	12	Productolith Pts - Semi Gloss - C2S

##### Spinnaker

GSM	MIL/PTS	SYNTHETIC SUBSTRATES
199	8	DiversiPrint 60# Cover-up -(High Gloss, Ultra Matte)
189	8	DiversiPrint 60# Permanent - (Gloss, Ultra Matte)
200	8	DiversiPrint 60# Removable - (Gloss, Ultra Matte)
258	9.8	DiversiPrint Clear Matte Laser Vinyl
365	11.95	DiversiPrint Clear Vinyl for NexPress
244	9.5	DiversiPrint White Matte Laser Vinyl
352	11.45	DiversiPrint White Vinyl for NexPress

##### Teslin

GSM	MIL/PTS	SYNTHETIC SUBSTRATES
183	10.5	Digital 1000
290	14	HD 1400
167	10	SP 1000
206	12	SP 1200
243	14	SP 1400
97	6	SP 600
115	7	SP 700
134	8	SP 800
175	10	SPID 1000
252	14	SPID 1400

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.