



## Norplex-Micarta Sheet Weight Calculation

Below are the tables which gives a “weight factor” for determining the weight of a thermoset composite sheet, depending upon the thickness, sheet size, resin, and reinforcement. Not all grades are manufactured in all sheet sizes, please reference the appropriate Manufacturing Capabilities Guide<sup>1</sup> which can be found on the website on the grade pages.

**Chart 1 - Sheets with a thickness equal to or greater than 1.125"**

Sheet Size	39" x 39"	39" x 79"	48" x 36"	48" x 39"	48" x 48"	48" x 54"	48" x 60"	48" x 72"	48" x 84"	48" x 96"	48" x 108"	48" x 120"
Weight Factor Class	A	B	C	D	E	F	G	H	I	J	K	L
Class 1	77	154	86.4	94	115	129.5	144	177.5	201	230	256	288
Class 2	83.5	167	93.4	101	125	140.5	156	187	219	249	281	311
Class 3	--	--	74	84	--	--	--	--	--	--	--	--
Class 4G	108	219	123	133	164	184.5	205	246	287	328	367	410
Class 5G	106	214	120	130	160	180	200	240	280	320	360	400

**Chart 2 – Sheets with a thickness equal to or less than 1.124"**

Sheet Size	39" x 39"	39" x 79"	48" x 36"	48" x 39"	48" x 48"	48" x 54"	48" x 60"	48" x 72"	48" x 84"	48" x 96"	48" x 108"	48" x 120"
Weight Factor Class	A	B	C	D	E	F	G	H	I	J	K	L
Class 1	77	154	96	96	115	129.5	144	177.5	201	230	256	288
Class 2	83.5	167	103.6	103.6	125	140.5	156	187	219	249	281	311
Class 3	--	--	74	84	--	--	--	--	--	--	--	--
Class 4G	108	219	136.7	136.7	164	184.5	205	246	287	328	367	410
Class 5G	106	214	120	130	160	180	200	240	280	320	360	400

### Weight Factor Class:

- 1 – Paper and Cotton cloth.
- 2 – Molybdenum or Graphite filled systems.
- 3 – Nylon fabric.
- 4G – Phenolic and Melamine resins combined with Glass fabrics.
- 5G – Epoxy and Silicone resins combined with Glass fabrics.



Example 1: To determine the weight of a laminated sheet of NP610, 2.000" in thickness x 39" wide x 79" long. Chart 1, Weight Factor Class 1, column B:

$$\begin{array}{rclcl} \text{Multiply: (Class 1, Column B)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 154 & \times & 2.000'' & = & 308 \text{ pounds} \end{array}$$

Example 2: To determine the weight of a laminated sheet of NP510A, 0.750" in thickness x 48" wide x 72" long. Chart 2, Weight Factor Class 5G, column H:

$$\begin{array}{rclcl} \text{Multiply: (Class 5G, Column G)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 240 & \times & .750'' & = & 180 \text{ pounds} \end{array}$$

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<sup>1</sup>Please visit [www.norplex-micarta.com](http://www.norplex-micarta.com) for Manufacturing Capability Guides. Manufacturing Capability Guides are resin and reinforcement specific and are listed on the grade pages with the corresponding resin and reinforcement. Grade pages can be found using the search function. Any questions please contact Customer Service.