

## Norplex-Micarta Sheet Weight Calculation

Below is a table which gives a “weight factor” for determining the weight of a laminated composite sheet product, depending upon the thickness, sheet size and the components, resin and substrate, of construction.

Sheet Size	48" X 48"	48" X 39"	48" X 60"	39" X 79"	48" X 96"	48" X 108"	48" X 120"	48" X 36"	48" X 39"	48" X 96"	48" X 108"	48" X 120"	48" X 72"	48" X 84"
Weight Factor	A	B	C	D	E	F	G	J	K	L	M	N	O	P
Class 1	-- <sup>1</sup>	94 <sup>2</sup>	144	154	230	-- <sup>1</sup>	288							
Class 2	-- <sup>1</sup>	101 <sup>2</sup>	156	167	249	-- <sup>1</sup>	311							
Class 3	--	84	--	--	--	--	--							
Class 4G								123 <sup>2</sup>	133 <sup>2</sup>	-- <sup>1</sup>	-- <sup>1</sup>	410	-- <sup>1</sup>	-- <sup>1</sup>
Class 5G								120	--	320	-- <sup>1</sup>	-- <sup>1</sup>	240	-- <sup>1</sup>
Class 6G								120		320				

### Weight Class:

- 1 – Paper, all resins .031 to 1.125
- 1 – Cotton cloth, all resins .062 to 1.125
- 2 – Molybdenum or Graphite filled systems.
- 3 – Nylon fabric.
- 4G – Phenolic and Melamine resins combined with Glass fabrics.
- 5G – Epoxy resins combined with Glass fabrics.
- 6G – Silicone resins combined with Glass fabrics.

Example 1: To determine the weight of a laminated sheet of NP610, 0.062" in thickness x 39" wide x 79" long. Weight Factor 1, column D:

$$\begin{array}{rclcl} \text{Multiply: (Weight Factor – 1/D)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 154 & \times & .062" & = & 9.55 \text{ pounds} \end{array}$$

Example 2: To determine the weight of a laminated sheet of NP510A, 0.750" in thickness x 48" wide x 96" long. Weight Factor 5G, column L:

$$\begin{array}{rclcl} \text{Multiply: (Weight Factor – 5G/L)} & \times & \text{(Desired Thickness)} & = & \text{Sheet Weight} \\ 320 & \times & .750" & = & 240 \text{ pounds} \end{array}$$

<sup>1</sup> These sheet sizes are available in most grades. There are minimums, and possibly extended lead-times, contact Customer Service by phone at: 800 350-9490; by facsimile, 800 350-0491; or by email, kbrainard@norplex-micarta.com.

<sup>2</sup> This number is only used for thickness greater than 1.125" to 4.00". If under, 1.125" use the 48" x 120" weight factor and divide by 3.