



**Flat Sheet Composite Laminates Cross Reference for
N-M Grades – ASTM & NEMA Standards – Military Specification – IPC Specification &
International Electrotechnical Commission (IEC) Standards**

Norplex-Micarta Grade	ASTM D709 - NEMA LI-1-1998	Military - MIL-I- 24768 / “Sheet” - “Type”	IPC 4101/ “Sheet”	International Electrotechnical Commission ¹ IEC 60893 – Part 3 - “Sheet” – “Type”
NP130, NP130HF, NP510A	FR-4	/ 27 – GEE-F	/21	- 2 – EP GC 202
MC511FR	FR-5	/ 28 – GEB-F		- 2 – EP GC 202
NP504, NP515LS	G-3	/ 18 – GPG	-	- 4 – PF GC 201
NP509	G-5	/ 8 – GMG	-	- 3 – MF GC 201
MC507U ²	G-7	/ 17 – GSG	-	- 6 – SI GC 201
NP509	G-9	/ 1 – GME	-	- 3 – MF GC 201
NP500A, NP500CR	G-10	/ 2 – GEE	/20	- 2 – EP GC 201
MC511A, MC511AF, NP511, NP511EM, NP572	G-11	/ 3 – GEB	-	- 2 – EP GC 203
P95 – GPY	-	-	-	- 7 – PI GC 301
MC330, NP310, NP310HT, NP342	C	/ 16 – FBM	-	- 4 – PF CC 201
NP310E	CE	/ 14 – FBG	-	- 4 – PF CC 202
NP318	CF	-	-	- 4 – PF CC 203
NP320	L	/ 15 – FBI	-	- 4 – PF CC 203
MC320LE, NP320E	LE	/ 13 – FBE	-	- 4 – PF CC 204
NP610	X	/ 12 – PBM	-	- 4 – PF CP 201
NP611, NP660, NP680	XP	/ 19 – PBM-P	-	- 4 – PF CP 201
NP612, NP625, NP664	XPC	/ 20 – PBM-PC	-	- 4 – PF CP 207
NP629	XX	/ 11 – PBG	-	- 4 – PF CP 203
NP424	CEM-1	/ 29 – CEM-1	/10	-
NP101	N-1	/ 9 – NPG	-	-

¹ Norplex-Micarta materials have not been tested to the IEC Standard listed. This standard is for reference only.

² MC507U does not meet all of the electrical properties of either NEMA G-7 or MIL-I-24768/17 - GSG