



# PROFESSIONAL PLASTICS, INC.

Leading Global Supplier of Engineered Plastic Shapes

NEMA THICKNESS TOLERANCES FOR SHEET STOCK						
Nominal Thickness	All Paper Base Grades	Grade C	Grades CE, CR, and A	Grade L	Grade LE	All Glass Grades
	Plus or Minus	Plus or Minus	Plus or Minus	Plus or Minus	Plus or Minus	Plus or Minus
.010	.002	--	--	.003	--	.002
.015	.0025	--	--	.0035	.0035	.003
.020	.003	--	--	.004	.004	.004
.025	.0035	--	.005	.0045	.0045	.0056
1/32	.0035	.0065	.0065	.005	.005	.0065
3/64	.0045	.0075	.0075	.006	.006	.0075
1/16	.005	.0075	.0075	.006	.006	.0075
3/32	.007	.009	.009	.007	.007	.009
1/8	.008	.009	.009	.007	.007	.009
5/32	.009	.011	.011	.010	.010	.015
3/16	.010	.0125	.0125	.010	.010	.019
7/32	.011	.014	.014	.011	.011	.021
1/4	.012	.030	.015	.024	.012	.022
5/16	.0145	.035	.0175	.029	.0145	.026
3/8	.017	.040	.020	.034	.017	.030
7/16	.019	.044	.022	.038	.019	.033
1/2	.021	.048	.024	.042	.021	.036
5/8	.024	.053	.027	.048	.024	.040
3/4	.027	.058	.029	.054	.027	.043
7/8	.030	.062	.031	.060	.030	.046
1	.033	.065	.033	.065	.033	.049
1-1/8	.035	.069	.035	.065	.035	.053
1-1/4	.037	.073	.037	.073	.037	.055
1-3/8	.039	.077	.039	.077	.039	.058
1-1/2	.041	.081	.041	.081	.041	.061
1-5/8	.043	.085	.043	.085	.043	.064
1-3/4	.045	.089	.045	.089	.045	.067
1-7/8	.047	.093	.047	.093	.047	.070
2	.049	.097	.049	.097	.049	.073
2-1/2						.085
3						.097

Sheet tolerance thickness - At least 90% of the sheet will measure within the tolerance given in the above table.

Sheet tolerance Length and Width - The tolerance in length and width of standard sheet sizes will be plus or minus 1" from standard.

<b>Warp and Twist</b>			
Thickness Range	Percentage warp and twist allowed	36" Width Warp "	48" Width Warp "
From - To		allowed	allowed
.031 - .062	5.00%	1.8	2.4
.063 - .125	2.50%	0.9	1.2
.126 - 2.50	1.00%	0.36	0.48
.251 - .750	0.50%	0.18	0.24
.750 - max	0.25%	0.09	0.12

Sheet tolerance Warp and Twist - In the case of warp, this percentage is stated in terms of the lateral dimensions (length or width); in the case of twist, one corner to the diagonally opposite corner.

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