

PLEXIGLAS® SHEET: Plexiglas® G Dimensional Tolerance

ACRYLIC SHEET

Flatness Tolerance

As manufactured, the flatness tolerance of Plexiglas G sheet depends on the long dimension. This allowance is based on ASTM D-4802, Section 5.6.1.

The tolerances are listed below:

For dimensions less than or equal to 48", the maximum allowable bow as manufactured is 1/4".
For dimensions greater than 48" but less than or equal to 96", the maximum allowable bow as manufactured is 1/2".

For dimensions greater than 96" but less than or equal to 168", the maximum allowable bow as manufactured is 3/4".

Length and Width Tolerance

The length and width tolerance for all Plexiglas G sheets is + 1/4" and -0" per ASTM D-4802.

Plexiglas® G Acrylic Sheet – Thickness Tolerance Chart per ASTM D-4802

| Sheet Size | Up to 36" x 60" | | Up to 48" x 84" and 60" x 72" | | Up to 74" x 99" | |
|----------------|-----------------|--------|----------------------------------|--------|-----------------|--------|
| | MIN | MAX | MIN | MAX | MIN | MAX |
| Thickness (in) | | | | | | |
| 0.080" | 0.060" | 0.094" | 0.052" | 0.102" | NA | NA |
| 0.118" | 0.093" | 0.133" | 0.088" | 0.138" | 0.078" | 0.148" |
| 0.177" | 0.144" | 0.194" | 0.139" | 0.199" | 0.134" | 0.204" |
| 0.220" | 0.180" | 0.240" | 0.175" | 0.245" | 0.170" | 0.249" |
| 0.236" | 0.196" | 0.256" | 0.191" | 0.261" | 0.186" | 0.266" |
| 0.354" | 0.299" | 0.379" | 0.294" | 0.384" | 0.289" | 0.389" |
| 0.375" | 0.320" | 0.400" | 0.315" | 0.405" | 0.310" | 0.410" |
| 0.472" | 0.407" | 0.497" | 0.402" | 0.502" | 0.397" | 0.507" |
| 0.500" | 0.435" | 0.525" | 0.430" | 0.530" | 0.425" | 0.535" |
| 0.625" | 0.548" | 0.658" | 0.548" | 0.658" | 0.543" | 0.663" |
| 0.709" | 0.629" | 0.739" | 0.629" | 0.739" | 0.619" | 0.749" |
| 0.750" | 0.670" | 0.780" | 0.670" | 0.780" | 0.660" | 0.790" |
| 0.945" | 0.858" | 0.968" | 0.858" | 0.968" | 0.833" | 0.993" |
| 1.000" | 0.913" | 1.023" | 0.913" | 1.023" | 0.888" | 1.048" |
| 1.250" | 1.156" | 1.302" | 1.156" | 1.302" | 1.156" | 1.302" |
| 1.375" | 1.275" | 1.421" | 1.275" | 1.421" | 1.248" | 1.440" |
| 1.500" | 1.379" | 1.539" | 1.379" | 1.539" | 1.341" | 1.577" |
| 1.750" | 1.613" | 1.799" | 1.613" | 1.799" | 1.570" | 1.842" |
| 2.000" | 1.848" | 2.058" | 1.848" | 2.058" | 1.798" | 2.108" |

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