

PLEXIGLAS® SHEET: Cold Bending

ACRYLIC SHEET

PLEXIGLAS® SHEET: COLD FORMING

Plexiglas® sheet can be cold formed (bent at room temperature) in a smooth arc and held to a radius by forcing the material into a curved channel support. The recommended radius of curvature should be a value greater than 180 times the thickness of the sheet for Plexiglas® G sheet, and 300 times the thickness for Plexiglas® MC sheet (See table below).

Recommended Minimum Radii of Curvature for Cold-formed Plexiglas® Sheet

Nominal sheet thickness Recommended minimum radius (in)

(in)	(mm)	Plexiglas® G	Plexiglas® MC
0.060	1.5	NA	18
0.098	2.5	NA	29
0.118	3	21	35
0.177	4.5	32	53
0.236	6	42.5	71
0.354	8.5	60	100
0.472	12	86	143

Radii of curvature less than those specified may exceed the design stress limits for the material, resulting in crazing.
NA = Not Applicable.

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