

# PLEXIGLAS® SHEET: Cold Forming

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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