Corning® Med-X® Glass
Radiation Shielding Glass for medical, technical and research applications.

Corning is a world leader in Radiation Shielding Glass offering some of the largest glass sizes available. Corning® Med-X® Glass is supplied as polished plates with dimensions up to 2800 x 1400 mm and is available worldwide with quick delivery times.

Key benefits
• Shields against X-Rays from equipment operating in the 80 to 300 kV range.
• High Barium and lead content providing optimum protection with excellent visual clarity.
• Supplied as polished plates cut to customer requirements up to 2800 x 1400 mm, allowing architects to design viewing windows with a wider field of vision.
• Also available in sizes cut specifically to customer requirements (with cut edges ground or polished and finished with safety chamfers).
• Extensive stocks held in all plate sizes and thicknesses at distribution points worldwide, for immediate cutting and despatch.

Applications
• Viewing windows for X-Ray, Angiography Rooms, CT Scans.
• Screens for medical diagnostics.
• Protection windows in laboratories.
• Airport security X-ray screens.
• Lenses for safety goggles.
### Optical Properties
- Refractive Index $n_d$: 1.76
- Transmission % @ 550 nm through 5 mm path: $\geq 85.0$

### Chemical Properties
- Lead (Pb): 52%
- Barium (Ba): 17%

### Mechanical Properties
- Density (g/cm$^3$): 4.8
- Knoop Hardness (kg/mm$^2$): 409
- Young's Modulus (GPa): 62.6
- Torsion Modulus (GPa): 24.8
- Poisson's Ratio: 0.26
- Coefficient of Thermal Expansion ($\times 10^{-7}$ /°C): 78.8

### Physical Properties
- **Optical Properties**
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### Shielding Characteristics

<table>
<thead>
<tr>
<th>Glass Thickness</th>
<th>Minimum lead equivalence (mm) for stated X-Ray tube voltage</th>
<th>Max. Plate Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>80kV 100kV 110kV 150kV 200kV 250kV 300kV kg/m$^2$ lbs/ft$^2$</td>
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<tr>
<td>4.0-5.5</td>
<td>1.4 1.4 1.3 1.2 1.0 1.0 1.0 26.4 5.4</td>
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<td>5.0-6.5</td>
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</tr>
<tr>
<td>18.0-20.0</td>
<td>6.0 5.7 5.9 5.2 4.4 4.6 4.8 96.0 19.7</td>
<td></td>
</tr>
</tbody>
</table>


Suitable for laminating using PVB interlayers, and can be fitted into sealed double-glazed units.

For more information contact: radiationglass@corning.com
To contact the nearest Corning sales office: www.corning.com/med-x