

Corning Med-X™

Comprehensive Radiation Protection

Corning is a world leader in Radiation Shielding Glass offering one of the largest glass sizes available; allowing architects to design viewing windows with a wider field of vision.

Look into Med-X™ for your next Healthcare Project



CORNING

Corning Med-X™

Corning’s Med-X™ provides high quality, transparent protective shielding against X-Ray radiation for medical, technical, and research applications. Its high lead and barium content give optimum shielding against radiation from equipment operating in the 100 to 300 kV range.

Shielding Characteristics

Thickness		Minimum lead equivalence (mm) for stated X-Ray tube voltage						Max. Plate Mass	
mm	inches	100kV	110kV	150kV	200kV	250kV	300kV	kg/m ²	lbs/ft ²
3.5-5.0	0.138-0.197	1.3	1.2	1.1	1.0	1.0	1.0	24.0	4.9
5.7-7.0	0.224-0.276	1.7	1.7	1.6	1.4	1.3	1.3	33.6	6.9
7.0-8.5	0.276-0.335	2.3	2.3	2.0	1.8	1.7	1.8	40.8	8.4
8.5-10.0	0.335-0.394	2.8	2.8	2.6	2.1	2.1	2.1	48	9.8
10.0-12.0	0.394-0.472	3.3	3.3	2.9	2.5	2.6	2.6	57.6	11.8
11.0-13.0	0.433-0.512	3.5	3.6	3.2	2.7	2.7	2.8	62.4	12.8
14.0-16.0	0.551-0.630	4.4	4.7	4.2	3.5	3.6	4.0	76.8	15.7
16.0-18.0	0.630-0.709	N/A	N/A	4.8	4.0	4.1	4.3	86.4	17.7
18.0-20.0	0.709-0.787	N/A	N/A	5.4	4.4	4.5	4.7	96.0	19.7

Data provided by the UK Health Protection Agency: N/A = X-Ray transmission below level of detection

Physical Properties

Optical Properties		Mechanical Properties	
Refractive Index nd	1.76	Density (g/cm ³)	4.8
Transmission % @ 550nm through 5mm path	≥85.0	Knoop Hardness (kg/mm ²)	440
Chemical Properties		Young’s Modulus (Gpa)	62.7
Lead (Pb)	48%	Poisson’s Ratio	0.23
Barium (Ba)	15%	Coefficient of Thermal Expansion (x10 ⁻⁷ °C)	81.8

The production of Med-X™ is strictly controlled and Corning follows both the environmental standard ISO14001 and the quality standard ISO 9001, 9002.

*Note: The high barium and lead content makes Corning Med-X™ is susceptible to staining by acids and alkalis. We recommend this glass not be used or stored in conditions that will result in exposure to acid gases or excessive humidity.

This publication gives a general description of the product and materials. It is the responsibility of the users of this document to ensure that the proposed application of the product is appropriate and that such application complies with all relevant local and national legislation, standards, code of practice and other requirements.

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- Med-X is supplied as polished plates with dimensions up to 2620 mm x 1360 mm.
- Smaller sizes can be cut to meet customer requirements.
- Med-X is available laminated for safety glazing applications using PVB interlayers.

Specified by Architects worldwide for Healthcare projects

Applications

- Viewing windows for X-ray, Angiography Rooms, CT and PET Scans
- Screens for medical diagnostics
- Protection windows in laboratories
- Airport security X-ray screens
- Lenses for safety goggles

Benefits

- Shields against X-rays from equipment in the 100 to 300 kV range
- High barium and lead content for optimum protection
- Neutral appearance
- Large plate size provides wide viewing angle
- Stocked in many sizes and lead equivalencies

How to Order:

Contact our North American Distributor:

McGrory Glass Inc.

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