Corning® Med-Gamma™ Glass

Gamma-Ray Radiation Shielding Glass for medical and technical applications.

Corning is a world leader in Radiation Shielding Glass offering a comprehensive range of products including **Corning® Med-Gamma™ Glass**. Corning® Med-Gamma™ Glass is supplied as polished plates with dimensions up to 2800 x 1400 mm, and has been designed to provide **high quality, transparent and protective shielding** from gamma-based PET radiation under various keV levels.

Key benefits

- Protective shielding glass against gamma-based PET radiation as specified by IEC 61331 (Standard Gamma Radiation).
- Extensive physical testing carried out on Corning® Med-Gamma™ Glass allowing designers to specify glass with maximum confidence.
- High quality and neutral appearance providing excellent visual clarity.
- Corning® Med-Gamma™ Glass is supplied as :
  - Polished plate up to 2800 x 1400mm
  - Laminated plate using PVB Interlayer
  - Cut plate supplied to customer specific sizes (with edges ground and finished with safety chamfers)
- Corning® Med-Gamma™ Glass is stocked worldwide through local Corning sales offices and a network of specialist partners.
- Production of Corning® Med-Gamma™ Glass is strictly controlled and follows quality ISO 9001, environmental ISO 14001 and health and safety OHSAS 18001 Standards.

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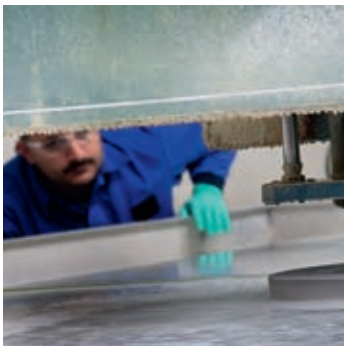

Shielding Characteristics

Glass Thickness		Minimum lead equivalent (mm) for stated keV			Max. Plate Mass	
mm	inches	511 keV	661 keV	1250 keV	kg/m²	lbs/ft²
7.0 - 8.5	0.276 - 0.335	2.8	2.8	3.4	40.8	8.4
8.5 - 10.0	0.335 - 0.394	3.5	3.5	4.1	48.0	9.8
10.0 - 12.0	0.394 - 0.472	4.1	4.0	4.7	57.6	11.8
11.0 - 13.0	0.433 - 0.512	4.5	4.4	5.1	62.4	12.8
14.0 - 16.0	0.551 - 0.63	5.7	5.5	6.4	76.8	15.7
16.0 - 18.0	0.630 - 0.709	6.5	6.6	7.5	86.4	17.7
18.0 - 20.0	0.709 - 0.787	7.3	7.0	8.0	96.0	19.7
20.0 - 24.0*	0.787 - 0.945	8.1	7.7	8.7	115.2	23.6
28.0 - 32.0*	1.102 - 1.260	11.4	10.7	12.0	153.6	31.5
32.0 - 36.0*	1.260 - 1.417	13.0	12.2	13.5	172.8	35.4

Data provided by the UK Health Protection Agency, based on Cs137/Co60 standard gamma radiation qualities according to ISO 4037-1. Attenuation measured by use of narrow beam method following IEC 61331.

** Thickness achieved through lamination, using a 1.5 mm PVB interlayer.*

Physical Properties

Optical Properties

Refractive Index nd	1.76
Transmission % @ 550nm through 5mm path	≥85.0

Mechanical Properties

Density (g/cm³)	4.8

Chemical Properties

Heavy oxide content	<70%

AFAQ ISO 9001 ISO 14001 OHSAS 18001

The production of Corning S.A.S. is strictly controlled and manufactured in accordance with the Quality Standard ISO 9001, the Environmental Standard ISO 14001 and the Health & Safety Standard OHSAS 18001.

For more information contact:
radiationglass@corning.com

To contact the nearest Corning sales office:
www.corning.com/med-gamma

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

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