



FLAMELITE (S) PTE LTD

29 MANDAI INDUSTRIAL ESTATE
#01-05 INNOVATION PLACE, TOWER 3
SINGAPORE 729932
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GST Registration No.: M2-0109914-5
Email Address: flameliteG@flamelite.com.sg
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CIDB Registered Contractor
Grade: L3 Type: CR 16



Co. Reg. No. 199205533 R
GST Reg. No. M2-0109914-5



Illustration of Mammography Screening Using 'Isotope-M'

Lead-free Radiation Shielding Glass
Isotope-M



Lead-free 0.5mm Pb lead equivalent Easy-to-clean High Transparency for Clear View Impact Safety

Isotope-M is a completely new type of radiation shielding glass that has no lead in it. Containing Strontium, Barium and other materials as radiation shielding elements instead of lead, 9mm thick Isotope-M has lead equivalency of 0.5mm Pb/50, 80kV. With its outstanding features exceeding those of conventional lead glass or lead acrylic, it is suitable for protection from relatively weak radiation, especially as a shield for mammography that requires impact safety.



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Features

1) Lead free

Lead free yet assuring lead equivalency of 0.55mm PB/50, 80 kV.

2) Easy to clean

No risk of staining on the glass surface. High surface hardness to prevent scratches.

3) High transparency for clear view

It has high visible light transmission rate, allowing you a clear view.

4) Impact safety

Three sheets of special glass are laminated together using safety interlayer to make Isotope-M impact safe.

5) Light weight

The specific gravity of Isotope-M is 2.7 and it is almost as light as regular window glass of the same thickness.

X-Ray shielding Performance of 'Isotope-M'

X-ray tube voltage (kV)	X-ray transmission (%)	Lead equivalency (mmPb)
50	0.04	0.5
80	1.75	

Test results according to IEC 1331-1, 1994

The X-ray transmission Isotope-M was measured ay 30kV as well, however, readings higher than background could not be obtained. This means that X-ray of 30 kV perfectly shielded.



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Product Data

Maximum size	1200mm x 2400mm
Thickness	9mm
Weight	24.5 kg/m ²

Product Comparison: Isotope-M, Isotope G, Lead Acrylic

	Isotope-M	Isotope-G	Lead Acrylic
Mohs' hardness	6.5	6	3
Visible light transmission	85	86	75 and over*
Specific gravity	2.7	4.4	1.6

* 12mm thick product (lead equivalent: 0.5mm Pb)