

PS9 NUCLEAR RADIATION SHIELDING GLASS

PRODUCT INFORMATION

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PHILLIPS SAFETY
PRODUCTS INC.

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PS9 NUCLEAR RADIATION SHIELDING GLASS



The PS9 Nuclear Radiation Shielding Glass is designed to be primarily utilized in nuclear power stations and reactors. This radiation shielding glass boasts a density of 5.2 g/cm³, a lead equivalency of 0.444mm Pb, and a light transmittance rate exceeding 85%. Plus, this high Pb lead glass can achieve thicknesses of up to 120mm, providing optimal shielding. Offering over 71% lead content and tailored dimensions, this Phillips Safety lead glass is supplied as polished plates with customized dimensions measuring up to 1200 mm x 800 mm, catering to specific requirements with precision and quality.

SPECIFICATION

AVAILABLE THICKNESS: 10mm, 20mm,

30mm, 50mm, 80mm, and 100mm

MATERIAL: GLASS

MAXIMUM SIZE: 1200 mm x 800 mm

X-RAY VOLTAGE: @ 150kV

LEAD CONTENT: 71%

LIGHT TRANSMISSION: ≥ 85%

MINIMUM DENSITY: 2%

MOHS' HARDNESS: 8

REFRACTIVE INDEX (Nd): 1.8

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Refractive Index (Nd): 1.8
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Mohs' Hardness: 8

APPLICATIONS:

Nuclear power plant
Atomic energy
Nuclear medicine
Hot Cell
PET etc.



THICKNESS	LEAD EQUIVALENT	X-RAY VOLTAGE	MAX. SIZE (MM)	INCH SIZE	KG/M ²
10mm (0.393")	3.3mm Pb	@ 150kV	1200 x 800	47.2" x 31.5"	52
20mm (0.78")	6.6mm Pb	@ 150kV	1200 x 800	47.2" x 31.5"	104
30mm (1.18")	9.9mm Pb	@ 150kV	1200 x 800	47.2" x 31.5"	156
50mm (1.96")	16.5mm Pb	@ 150kV	1000 x 800	39.3" x 31.5"	260
80mm (3.15")	26.4mm Pb	@ 150kV	UPON REQUEST		416
100mm (3.93")	33mm Pb	@ 150kV			520