

# PS9 NUCLEAR RADIATION SHIELDING GLASS

## PRODUCT INFORMATION

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**PHILLIPS SAFETY**  
PRODUCTS INC.

**PRODUCT INFORMATION**  
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/cm<sup>3</sup>, 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**

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**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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Minimum Density: 2%  
Lead Content: 71%  
Refractive Index (Nd): 1.8  
Light Transmission: ≥ 85%  
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 <sup>2</sup>
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

# CONTACT

Should you need any further information,  
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