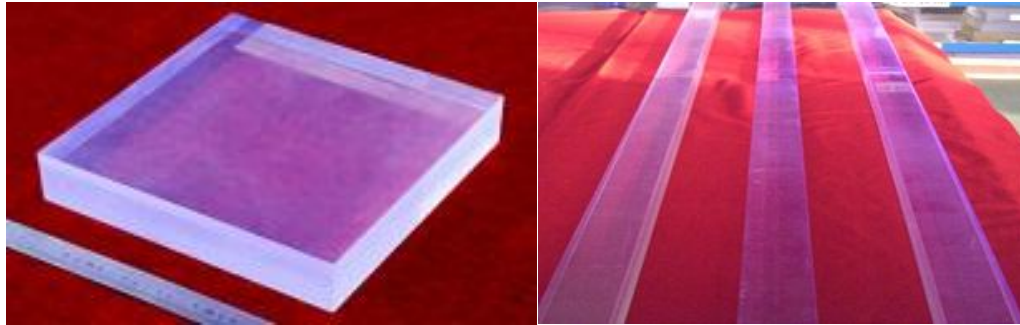


SP101 Plastic Scintillators

SP101 **plastic scintillators** are used for Gamma-ray detection. They are widely used in various applications, such as isotope gauge, vehicle radiation detection and environmental radiation monitoring systems.



Modules or types

Typical Size(mm)	Surface finish	Tolerance(mm)	Availability
50x500x1200	All surfaces polished	+/-0.02mm	In stock
50x50x1000	All surfaces polished	+/-0.02mm	In stock
50x50x1500	All surfaces polished	+/-0.02mm	In stock
50x50x2000	All surfaces polished	+/-0.02mm	In stock
50x50x2500	All surfaces polished	+/-0.02mm	In stock
50x50x3000	All surfaces polished	+/-0.02mm	In stock
Dia.50x1000	All surfaces polished	+/-0.02mm	In stock
Dia.50x1500	All surfaces polished	+/-0.02mm	In stock
Dia.50x2000	All surfaces polished	+/-0.02mm	In stock

Note: Other sizes or specifications can be customized upon your request.

Application Notes

- Isotope gauge
- Vehicle radiation detection
- Environmental radiation monitoring
- Anti-Compton detector

Features

- Easy to be processed into various shapes
- High transparency
- Easy to be processed into large volume scintillators
- Short decay time($10^{-8}\sim 10^{-9}$ s)
- High mechanical strength
- Good vibration resistance
- Good impact resistance
- Good humidity resistance
- Best anti-radiation property

Basic Properties

Basic Properties	
Softening temperature (°C)	75~80
Density (g/cm ³)	1.05
Hygroscopic	None
Operating temperature (°C)	-40~55
Wavelength of emission max. (nm)	423
Refractive index @ emission max	1.58
Decay time (ns)	2.8
Photoelectron yield (% of NaI(Tl)) (for γ -rays)	20~30

Note: The boules, blanks, polished elements are available.