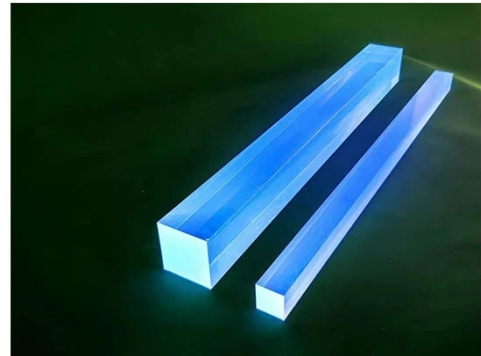


PLASTIC SCINTILLATORS & SCREENS

HZ-100 Plastic Scintillator

Product Brochure & Technical Reference

Plastic scintillator paddles, plates, bars and drawing-defined components. Specify the active body and readout-face geometry together with surface finish, wrapping and sensor coupling.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Listed Value
Material	Polystyrene
Density	1.023 g/cm ³
Refractive index	1.58
Light output relative to anthracene	64%
Peak emission wavelength	423 nm
Scintillation decay time	2.4 ns
Rise time	0.9 ns
Softening temperature	75°C

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

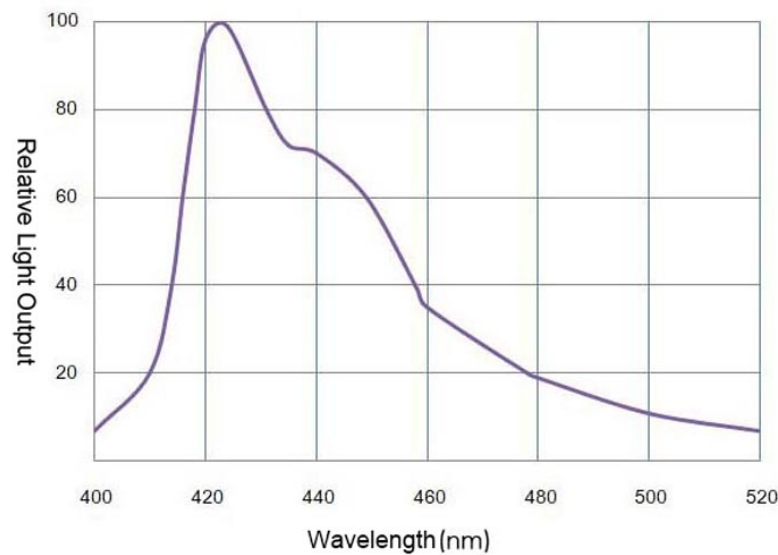
PLASTIC SCINTILLATORS & SCREENS

Configuration & quotation

Define the component around your application

Application examples: Portal radioactivity detection systems; Isotope gauges and industrial radiation instruments; Portable radioactive detection instruments

Emission spectrum



Reading the reference

Reference HZ-100 emission spectrum. Relative spectral output helps review photosensor matching; define surface finish, wrapping and coupling for the component.

Material reference for selection. Confirm final performance and test conditions for the quoted configuration.

Custom HZ-100 Plastic Scintillator Paddles, Plates and Bars

Product Format	Details for Quotation
Scintillator paddles	Active body dimensions, thickness, readout-face geometry, photosensor interface and quantity. Include a dimensioned drawing for shaped parts.
Plates and slices	Length, width, thickness, active area and required tolerances.
Bars and blocks	Length, cross-section, surface finish and single-ended or two-ended readout arrangement.
Cylinders and rings	Outside diameter, inside diameter where applicable, height and optical coupling requirements.
Other custom shapes	Dimensioned drawing, quantity, mounting features and surface requirements.

Properties of HZ-100 Plastic Scintillators

Property	Listed Value
Light attenuation length	210 cm
Operating temperature	-40 to +55°C
Listed energy detection range	50 keV-3 MeV; detector response depends on the complete assembly and measurement conditions.

Prepare your quotation

RFQ Item	Information to Provide
Application	Portal monitor, isotope gauge, portable detector, physics counter, area monitor or custom assembly.
Geometry	Panel, plate, bar, block, cylinder, ring or drawing-defined shape.
Dimensions	Active area, thickness, length, width, tolerance, edge margin and mounting features.
Optical requirement	Surface finish, edge polish, wrapping, reflector, light guide and sensor coupling.
Readout method	PMT, SiPM, photodiode, electronics, cable and housing requirement.
Order information	Prototype quantity, batch quantity, inspection report and delivery schedule.

Reference values and options for selection. Confirm the material grade, geometry, test conditions and acceptance criteria for the quoted configuration.

Send drawings for engineering review

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[Open product and inquiry page](#) | Hangzhou, Zhejiang, China