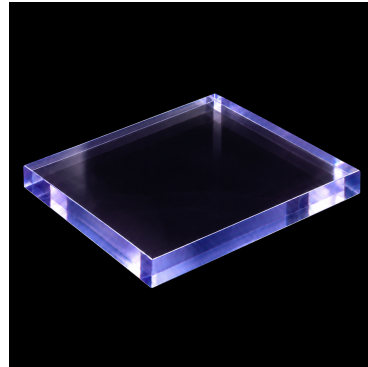


PLASTIC SCINTILLATORS & SCREENS

HZ-200 Plastic Scintillator

Product Brochure & Technical Reference

A fast plastic scintillator for particle counters and cosmic-ray detector projects. Define the panel or bar geometry, optical coupling and acceptance test before comparing material choices.



Reference product image. Shown geometry is illustrative.

Material reference properties / options

Property	Reported Value	Selection Notes
Light output relative to anthracene	≥66%	A relative value; compare materials using matched measurement conditions.
Emission peak region	395-425 nm	A broad peak region, rather than a single specified peak wavelength.
Rise time	0.9 ns	Material timing value; detector electronics also affect the measured response.
Scintillation decay time	2.4 ns	Review against the timing requirements of the detector.
Optical attenuation length	>2 m	A 5 × 5 × 80 cm sample gave a fitted value of 2.44 m in a cosmic-ray test.
Refractive index	1.58	Consider the optical interface and coupling arrangement.
Softening temperature	75-80°C	This value is not an operating temperature rating.

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

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Configuration & quotation

Define the component around your application

Application examples: Charged-particle counters and detector prototypes; Cosmic-ray muon panels and coincidence counters; Trigger paddles and anticoincidence detector studies

Prepare your quotation

RFQ Item	Information to Provide
Application	Target particles, detector purpose and whether this is an EJ-200 replacement project.
Geometry	Drawing, dimensions, thickness, tolerances and required surface finish.
Readout	PMT or SiPM model, sensor position, light guide, wrapping and coupling arrangement.
Acceptance requirements	Required light response, attenuation, timing, uniformity and inspection method.
Order details	Sample or production quantity, requested delivery date and destination.

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