

EJ-204 Plastic Scintillator

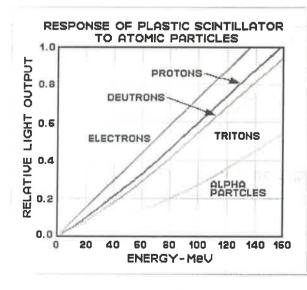


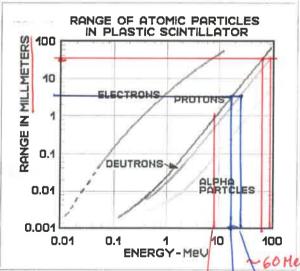
In addition to providing the highest scintillation efficiency of any plastic scintillator, EJ-204 delivers the excellent combination of high speed and good attenuation length. It is thus particularly well suited for high performance detector systems for nuclear and high energy physics research.

Its emission wavelength near 400 nm couples ideally with bialkali phototubes while still being long enough to be effectively used with UVT light guides. Hence, its variant, EJ-204A is particularly well suited for use with green wavelength-shifting light guide materials.

Physical and Scintillation Constants:

Light Output, % Anthracene	68	E LOCA EMISSION SOFOTO NA
Scintillation Efficiency, photons/1MeV e	10,400	1.0 EJ-204 EMISSION SPECTRUM
Wavelength of Max. Emission, nm	408	0.8
Rise Time, ns	0.7	B
Decay Time, ns	1.8	20.6
Pulse Width, FWHM, ns	2. 2	0.6 O.4 O.4
No. of H Atoms per cm ³ x 10 ²²	5. 21	ā 0,2
No. of C Atoms per cm ³ x10 ²²	4. 74	0.0
No. of Electrons per cm ³ x 10 ²³	3. 37	380 400 420 440 460 480 500
Density, g / cc:	1.032	WAVELENGTH(nm)
Polymer Base:	Polyvinyltoluene	
	1.58	
Refractive Index:	1. 58	
Refractive Index: Vapor Pressure:		-compatible
	ls vacuum	-compatible 5 below +67°C
Vapor Pressure:	7. 8 x 10 - At +60°C,	





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18HeV .

15 rul

184.66 MeV

8 HW

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