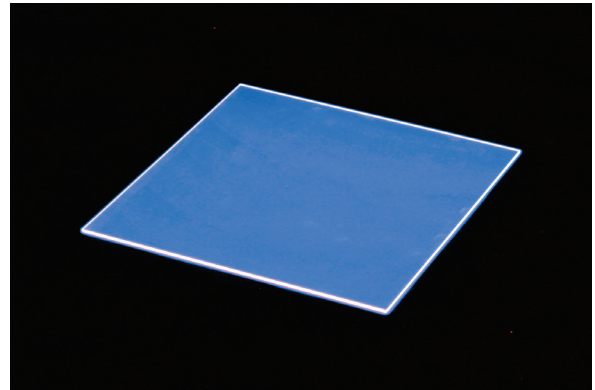


ULTRA-THIN FILM PLASTIC SCINTILLATOR EJ-214

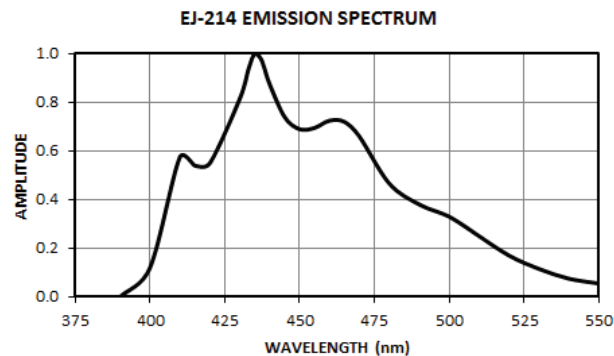
Formerly known as EJ-299-07, this special plastic scintillator has been formulated specifically for use in ultra-thin films employed for heavy ion studies and beam monitors. The formula contains a very high concentration of the waveshifting dopant to efficiently absorb and shift the primary scintillation light, which is in the UV range. The plastic base is PVT, and the films are suitable for use in high vacuum. They may be mounted to light guides with optical epoxies or silicone greases. Cleaning is best done with isopropyl alcohol.



PROPERTIES	EJ-214
Scintillation Efficiency (photons/1 MeV e ⁻)	9,000
Wavelength of Maximum Emission (nm)	435
Decay Time (ns)	2
H Atoms per cm ³ (×10 ²²)	5.18
C Atoms per cm ³ (×10 ²²)	4.67
N Atoms per cm ³ (×10 ¹⁹)	4.89
O Atoms per cm ³ (×10 ¹⁹)	2.59
Electrons per cm ³ (×10 ²³)	3.27
Density (g/cm ³)	1.02
Softening Point (°C)	60

AVAILABLE SIZES	
Thickness	25 ± 7.5 μm
Maximum Tile Size	100 mm × 100 mm

Note: Only offered with rectangular dimensions. Discs not offered.



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