



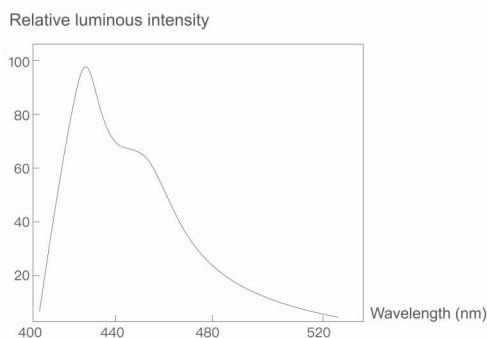
Plastic scintillator is mainly used to measure  $\gamma$ -rays, Very large volumes of products can be manufactured. Our products can be made into different geometric shapes, such as: plates, sheets, blocks, rods, columns, rings, etc. They can also be customized according to the user's size and provide different reflective materials and packaging.

General parameters	EPS100	EPS106	EPS220	EPS222(EPS106+ZnS:Ag)		Unit
Density	1.05	1.05	-	1.05	-	$\text{g/cm}^3$
Wavelength of Emission Peak	415	423	450	423	450	nm
Light Output(Anthracene)	50-60	50-60	300	50-60	300	%
Decay Constant	2.4	2.4	200	2.4	200	ns
Rise Time	1	1	-	1	-	ns
Attenuation Length	380	250	-	250	-	cm
H/C ratio	1.1	1.1	-	1.1	-	/
Hygroscopic	no	no	no	no	no	/
Refractive Index	1.58	1.58	-	1.58	-	/
Soften Temperature	75-80	75-80	-	75-80	-	$^{\circ}\text{C}$
Base Material	Polystyrene	Polystyrene	PMMA	Polystyrene	-	/
Density of ZnS:Ag	-	-	3.5-5	-	3.5-5	$\text{mg/cm}^2$
Application	$\alpha, \gamma$ and $\mu$	$\beta$	$\alpha$	$\alpha$ and $\beta$	-	/

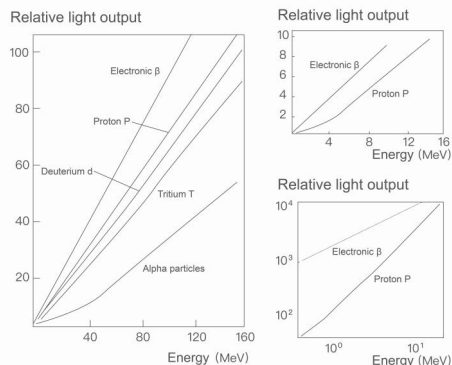
## Basic Information

- Growth method ..... Polymeric
- Base material ..... Polystyrene
- Regular volume ..... 25L, 30L, 50L or customized
- Achieved items ..... Blocks, cylinders, plates and ZnS(Ag) coating

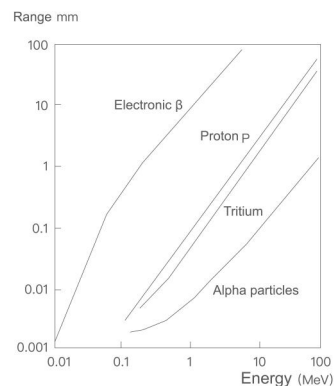
## Characterization



● Figure 1. Emission spectrum of plastic scintillator



● Figure 2. Energy response of plastic scintillator to several charged particles



● Figure 3. The range of several charged particles in plastic scintillators