

Plastic Scintillator



Plastic scintillator is a special organic scintillation material, the main feature is its high transparency, short decay time, high mechanical strength, resistance to vibration and impact resistance, as well as lower cost, it has been widely used to detect X-rays, gamma rays, fast neutrons and charged particles.

Basic Information

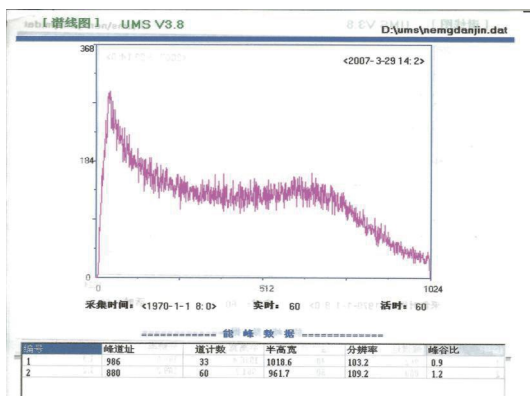
- Growth technique: Polymeric
- Base material: Polystyrene
- Regular volume: 25L, 30L, 50L or customized
- Achieved items: blocks, cylinders, plates and ZnS(Ag) coating

General Properties

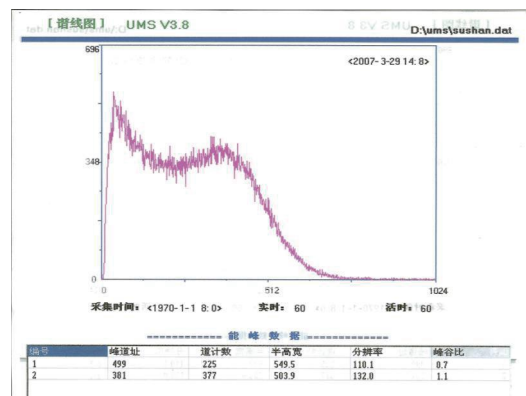
Density(g/cm ³)	1.05
Wavelength of emission peak(nm)	415
Light output(Anthracene, %)	50-60
Decay time(ns)	2.4
C/H ratio	1.1
Hygroscopic	No
Refractive index	1.58
Soften temperature(°C)	75-80

Characterization

Light output: 50-60%(Anthracene)



The peak of the source on anthracene crystal is about 620 channels



The peak of the source on the plastic scintillator sample is about 380 channels

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