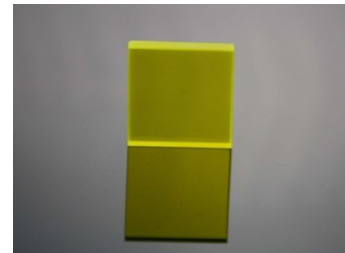
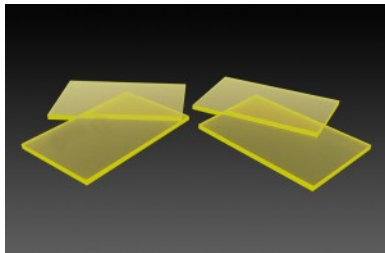


YAG(Ce) Scintillator

General properties of YAG(Ce) scintillator

Melting point(k)	2243
Orientation	<111>
Density (g/cm ³)	4.57
Cleavage plane	no
Afterglow(% after 6ms)	<0.005
Wavelength of emission Max(nm)	550
Primary decay time (ns)	70
Light output (Photons/MeV)	9,000
Hardness(Mho)	8.50
hygroscopic	no
Refractive index	1.82



Basic information of YAG(ce) scintillator:

YAG (ce) is a non-hygroscopic, chemically inert inorganic scintillator, the wavelength of maximum emission at 550 nm is well matched to CCD sensitivity, and it has reasonably fast scintillator(75 ns decay time) with a relatively high light yield of 12% of NaI(Tl) scintillator. YAG(ce) can be used in the harsh environment to detect alpha, gamma rays due to its stable physical and mechanical property, especially for electron microscopy applications.

Growth method: Czochralski

Formula: $Y_3Al_5O_{12}$ (cerium content: 0.2 at%)

Maximum dimension: \varnothing 80 mm x 200 mm

Available items: Single crystal

Regular dimensions: 25 x 25 x 0.5/1.0 mm, 10 x 10 x 0.5/1.0 mm, 5 x 5 x 0.5/1.0 mm,
 \varnothing 25 x 0.5/1.0 mm, \varnothing 10 x 0.5/1.0 mm, special sizes are available upon request

Aluminum coating: Yes

Indium Tin Oxide(ITO) coating: Yes

문의처

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