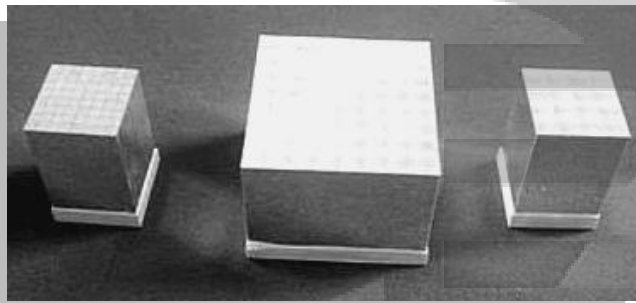
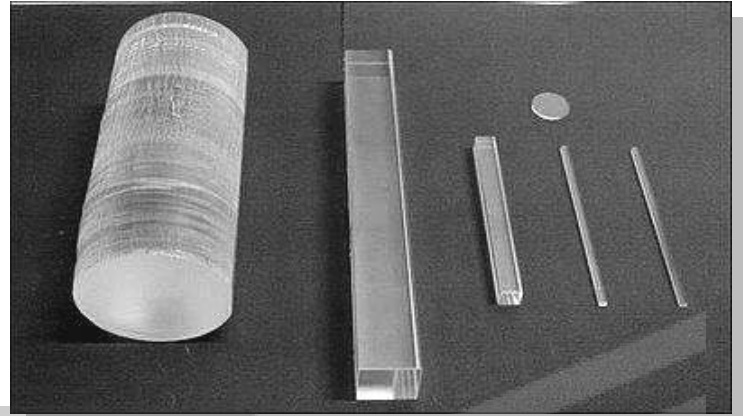




We are committed to the supply of all types of substrate wafers to the microelectronics industry

Lutetium-yttrium oxyorthosilicate (LYSO)

Brief : Lutetium-yttrium oxyorthosilicate, also known as LYSO, is an inorganic chemical compound with main use as a scintillator crystal. Its chemical formula is $\text{Lu}_2(1-x)\text{Y}_2\text{SiO}_5$. It is commonly used to build electromagnetic calorimeters in particle physics. LYSO crystals have the advantages of high light output and density, quick decay time, excellent energy resolution.



Application:

The biggest application fields are the major used in life science is PET (positron emission computed tomography (ct) imaging device), including clinical medicine, drugs and pharmacokinetics, biological experiments, such as health care

Physical Property List:

Density(g/cm ³)	7.4
Effective Atomic Number	66
Radiation length(cm)	1.1
Decay Constant (ns)	40-44
Peak Emission (nm)	428
Light Yield (Relative BGO=100%)	190
Index of Refraction	1.82
Peak excitation (nm)	375
Radiation Hardness (rad)	>106
Melting Point (°C)	2050
Hardness (Mohs)	5.8

Our ability: The LYSO crystal scintillation performance of our company has reached the international advanced level, which can meet the requirements of medical imaging PET performance and has the ability of bulk supply. Our company has a complete set of crystal processing and assembly line, and can process all kinds of crystal and display assembly according to customer's requirements. The crystal size has reached dia80mm *200mm length which can also be made to typical round wafers: 1"/2"/3" etc with SSP(single side polished)&DSP(double sides polished).

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