StardustColors SAS
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Technical Data Sheet

Fluorescent invisible Infra red pigments

Description & Composition

Sodium yttrium fluoride, ytterbium and erbium doped (NaYF4: Yb3+/Er3+) is a rare earth doped NaYF4, which can be used for a variety of applications, which include color display, solar cells, photocatalysis, and bioimaging.

Properties

Name	IR infrared pigment
Appearance:	Off-white Powder
Aspect:	Invisible under day light
Aspect under IR980 (+/-5%):	Colored and luminous
Particle size (D90):	≤20µm
Particle size (D50):	1-5 µm

Emission color:	**Green** under 980nm IR laser light	Emission color:	**Blue** under 980nm IR laser light
Emission wavelength:	543±5nm	Emission wavelength	470±5nm,
Emission color:	**Red** under 980nm IR laser light	Emission color:	**Yellow** under 980nm IR laser light
Emission wavelength	610nm±5nm	Emission wavelength:	543±5nm, 660±5nm

Storage

Should be kept in a dry place under room temperature and do not expose to sunlight.

Application

Mainly used for various security inks, security fiber, security plastic, 3D Printing Materials for Research and Development, Alternative Energy, Ceramics, Ceramics by Element, Ceramics for 3D Printing.

Packing

Plastic bag 250, 500, 1000g

Safety information

Non dangerous product, for all modes of transport
Flash Point(F): Not applicable
Flash Point(C): Not applicable