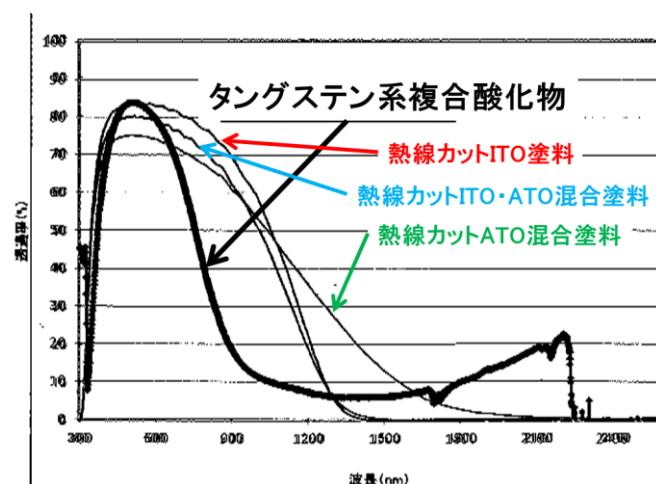


Conductive Oxide Material Near Infrared Red Light, IR Shield, Absorb Materials (Heat Shielding, Absorbing Materials) Indium Tin Oxide (Fuji ITO Series)

FUJI ITO series are the materials which can absorb and shield near infrared light and heat energy. At the same time, they can maintain high transparency at the visible light range. In general, most of the heat absorbing, shielding materials are organic materials. Our materials are inorganic ceramic material. Therefore, Fuji ITO series are very robust and have high strength, resistance against light and surrounding environment. FUJI ITO series can be applied to window, plastic film materials by coating or mixing. Those window or film material can absorb and shield infrared light and heat effectively, while maintaining high transparency in the visible light region. Therefore, our materials are very environmentally friendly.

In addition, ITO (Indium Tin Oxide) is the conductive materials so that they can be applied for transparent conductive material, antistatic materials etc...



FUJI PIGMENT Co., Ltd.
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1. Robust, high resistance against light, surrounding environment

Most of IR (Heat) absorbing, shielding materials are organic substances in general. FUJI ITO series are the inorganic ceramic oxide material. Therefore, our materials are very robust, and possess high resistance against light, surrounding environment

2. High transparency at the visible light region

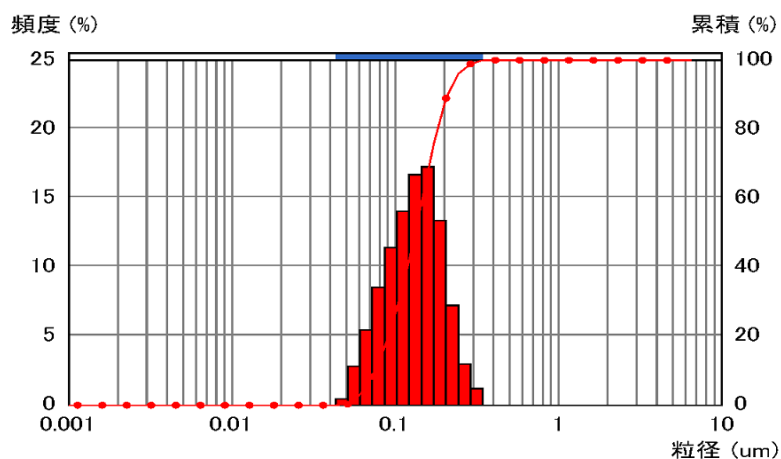
FUJI ITO series have high transparency at visible light region so that window or plastic film can be very transparent while absorbing and shielding IR (Heat) energy, by mixing or coating onto those materials.

3. FUJI ITO series is conductive oxide material

ITO also possess high conductivity so that they can be applied for transparent conductive material, antistatic material, catalytic materials etc...

color : Gray, pale yellow ~ pale green

conductivity : $\sim 10^4$ S/cm



Particle size of ITO dispersion in water

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Fuji TECHNICAL INFORMATION

ITO	5.0 - 25.0 %
Resin and additive	0.8 - 12.0 %
Water or Organic Solvent	60.0 - 95.0 %
Viscosity	250 - 125000 mPa·s/ 25 °C
Particle size of ITO	60.0 nm - 300.0 nm

We can supply this IR (heat) shielding, absorbing materials, conductive materials (Indium Tin Oxide : ITO) either by powder, or dispersion (water and various type of organic solvent as customer request), coating material, paint materials. We can modify chemical and physical properties indicated at above table as customer request. Please consult with us including technical detail, anything anytime.

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