



**QINGDAO JADE NEW MATERIAL  
TECHNOLOGY CO.,LTD**  
青岛杰得佳新材料科技有限公司

## ■ Optical Material Additives

### Infrared Absorbers

**JADEWIN IRA OYP 01**

**JADEWIN IRA SYP 02**

**JADEWIN IRA HSYP 03**

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## ■ Optical Material Additives

### JADEWIN Infrared Absorbers

#### IRA OYP 01 IRA SYP 02 IRA HSYP 03

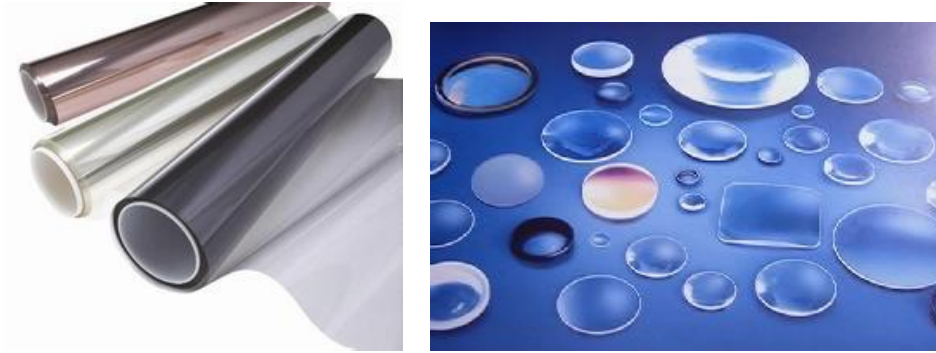
#### Description

JADEWIN Infrared Absorbers are mainly used in transparent conductive coating, Antistatic Coating and also radiation protection coating.

JADEWIN Infrared Absorbers can also be used in electrode material ,eg. transparency electrode,Cathode material of lithium cell, Thermal insulation material , Infrared absorbing or reflective material.

The end application includes LED Screen,Flat Panel Display (FPD) ,Plasma display(PDP),Touch Screen, electroluminescent(EL) materials, Cold light board, LED, LCD, OLED, Membrane Switch, Epoxy , Optical Lens, Security Ink and also automobile film.

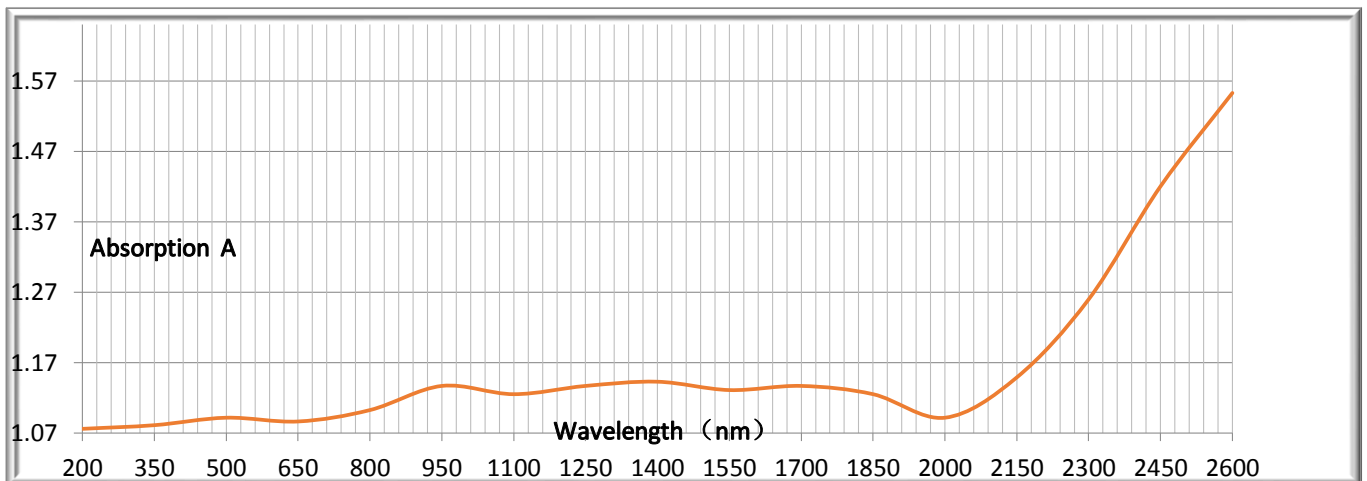




### JADEWIN IRA OYP01

Appearance	Yellow green powder
Specific surface area (m <sup>2</sup> /g)	30-50
Powder resistance (Ω .cm <sup>2</sup> )	15-25
Particle (nm)	10-100

#### Light Absorption Spectrum



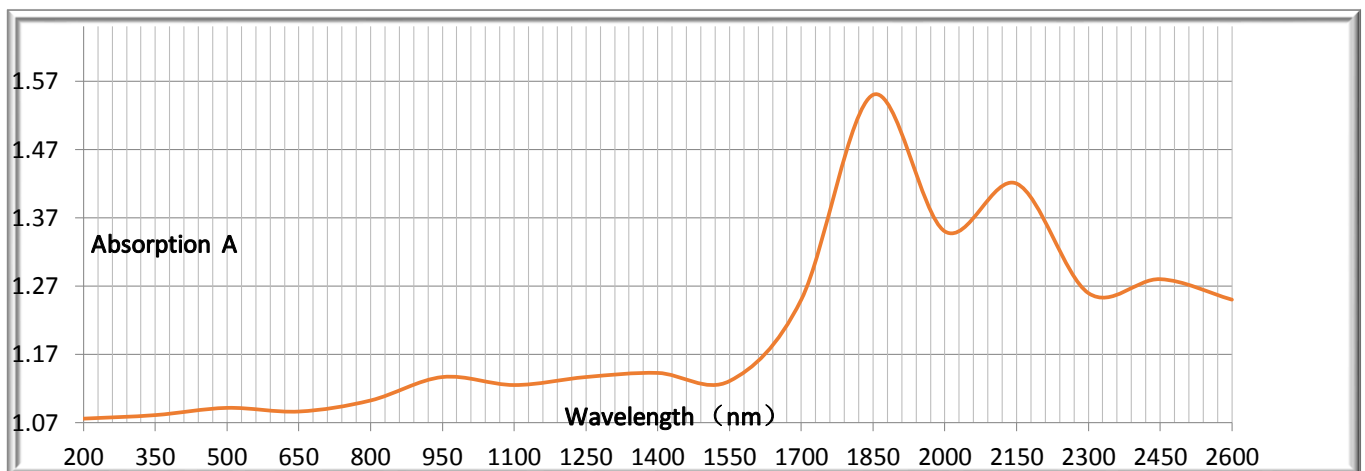
#### Application

Cold light board,LED, LCD, OLED, Membrane Switch, Epoxy , Optical Lens, Security Ink and also automobile film.

### JADEWIN IRA SYP02

Appearance	Light Green Powder
Specific surface area (m <sup>2</sup> /g)	30-50
Powder resistance (Ω.cm <sup>2</sup> )	5-10
Particle (nm)	5-10

#### Light Absorption Spectrum



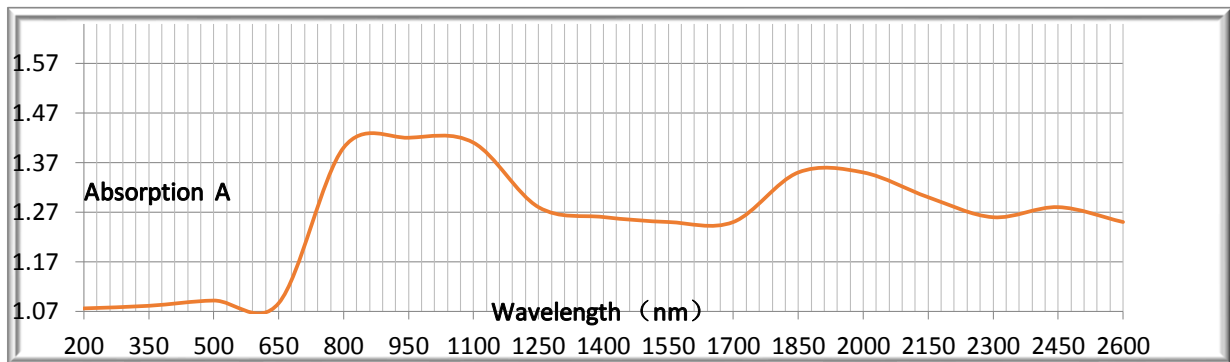
#### Application

Solar film , Anti-Static Coatings

### JADEWIN IRA HSYP 03

Appearance	Light Green Powder
Specific surface area (m <sup>2</sup> /g)	30-50
Powder resistance (Ω.cm <sup>2</sup> )	5-10
Particle (nm)	5-10

#### Light Absorption Spectrum



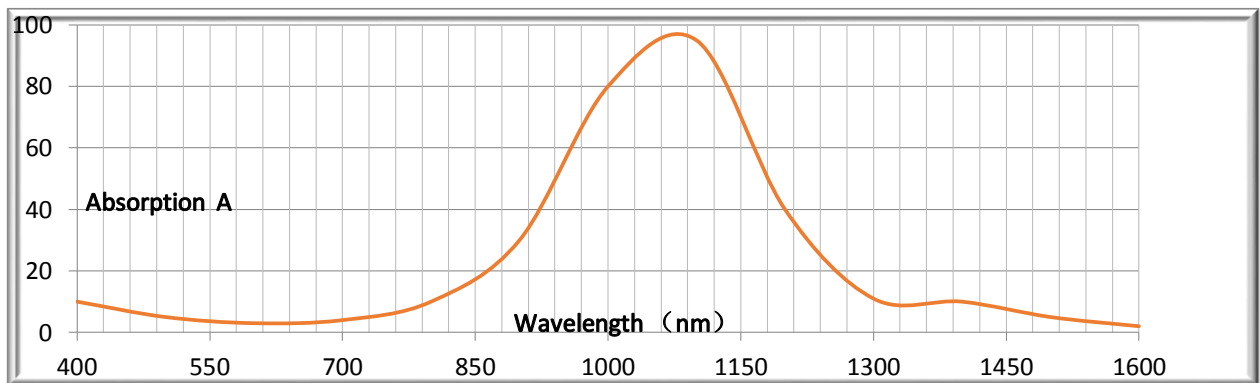
#### Application

Automobile Thermal Insulation Glass,PVB,PET,Thermal Insulation Film,Electronic Products

### JADEWIN IRA CD 04

Appearance	Dark Brown Powder
Absorption ( $\lambda_{max}/nm$ )	1080-1090
Melting Point(DC)	279-289
Water (%)	0.6Max

#### Light Absorption Spectrum



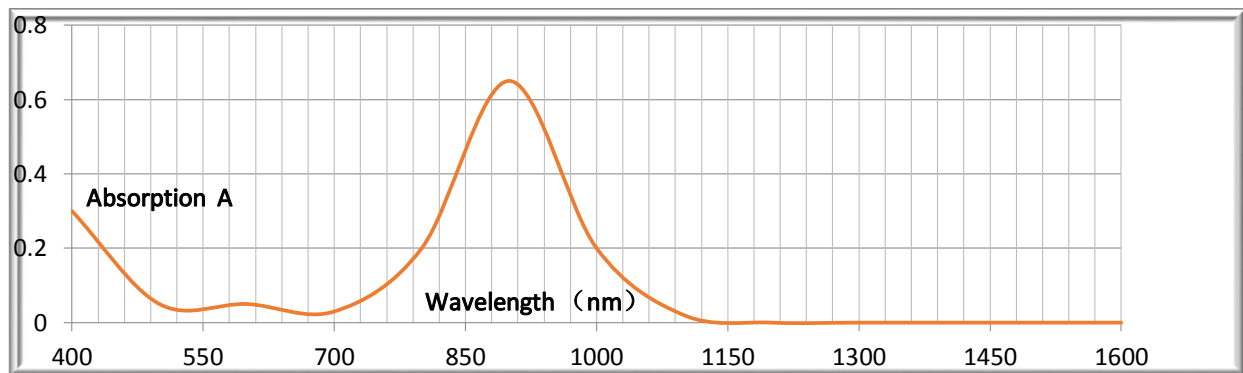
#### Application

Infrared Dyes

### JADEWIN IRA CD 05

Appearance	Dark Green Powder
Absorption ( $\lambda_{max}/nm$ )	895-905
Melting Point(DC)	245-289
Water (%)	0.6Max

#### Light Absorption Spectrum



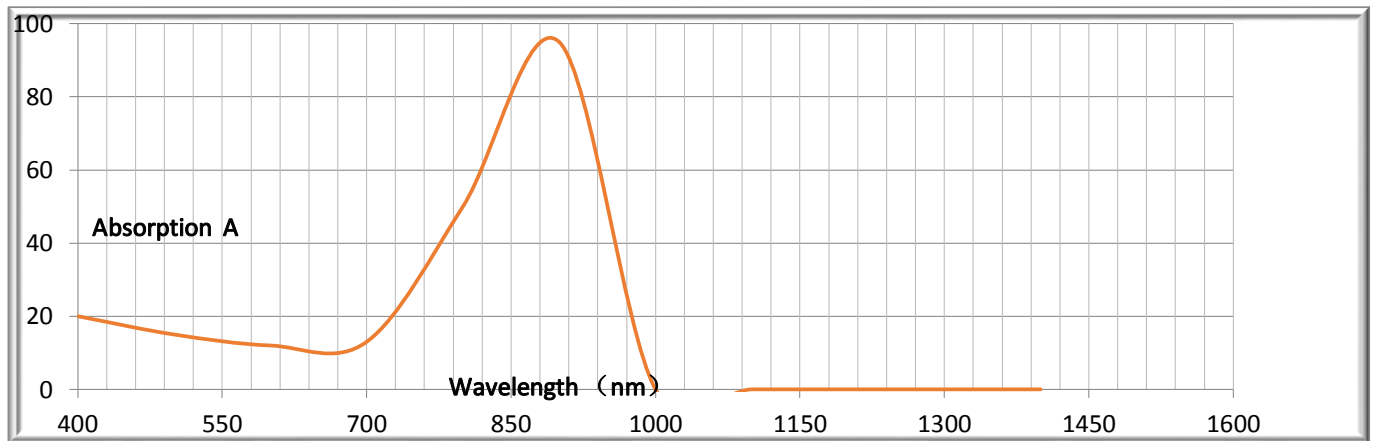
#### Application

Infrared Dyes

### JADEWIN IRA CD 06

Appearance	Dark Powder
Absorption ( $\lambda_{max}/nm$ )	835-845
Melting Point(DC)	249-288
Water (%)	0.6Max

#### Light Absorption Spectrum



#### Application

Infrared Dyes