Technical Data Sheet

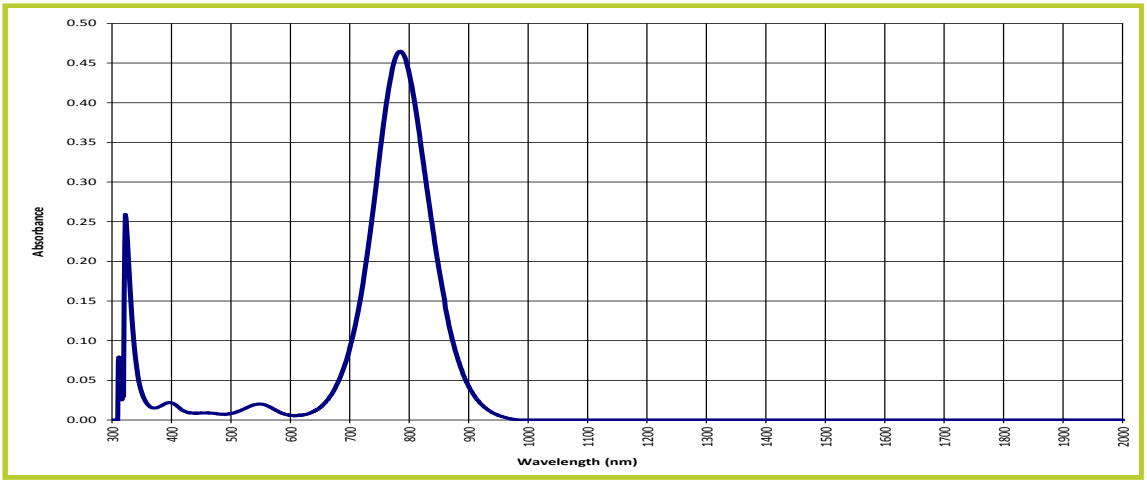
Product Code: **IR Dye 2630**

Product Description: 785nm NIR Dye

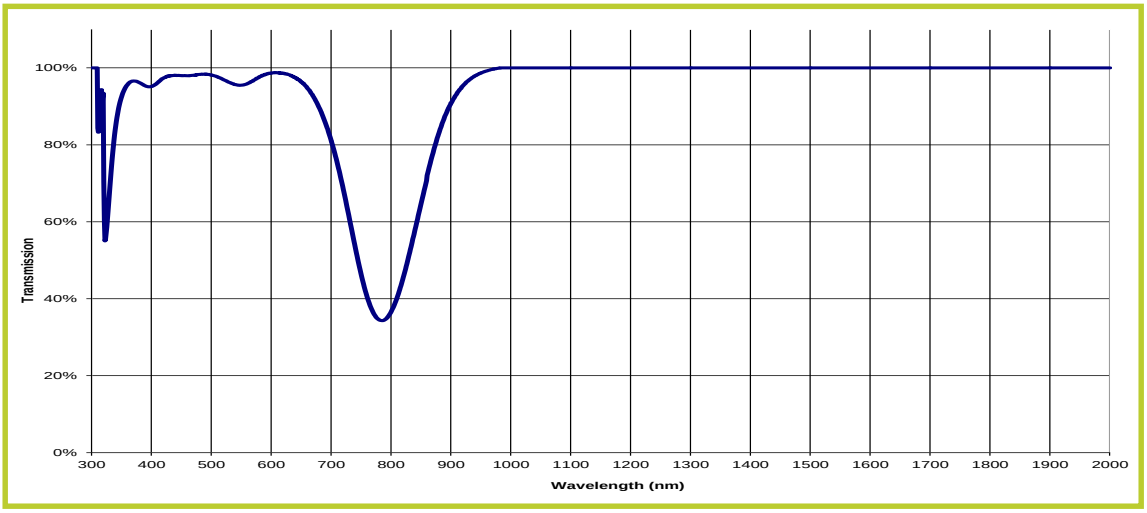
Properties

Appearance: **black free flowing powder**
Melting Point: **289°C – 290°C**
Lambda Max: **785 nm**
Absorptivity: **50 (L g^{-1} cm^{-1})**
Solubility (grams/100 grams of solvent):
MEK = 0.64, ET Acetate = 0.3, Cyclohexanone = 2.8

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 2630** finds use in a broad range of applications where the absorption of Infrared light, and the transmission of Visible light is important:

Laser Eye Protection – IR Dye 2630 has excellent absorptivity in the area of 800 nm, complimented by high transmission in the visible range. It has excellent thermal stability for processing into polycarbonate. Consequently, it is an excellent candidate for Laser Protective Eyewear for use with the diode laser.

Use Concentration - Approximately 0.30 grams of dye per pound of PC gave an OD of 5 in a 3mm lens of 18 MFR PC.

Inks and Coatings – Due to its' good solubility in a broad range of organic solvents, including methanol, IR Dye 2630 finds use in applications where the absorption of Infrared energy is needed in inks and coatings. These applications range from Bar Code Reading Inks to security inks.

Adam Gates & Company