

Technical Data Sheet

Product Code: **IR Dye 7036**

Product Description: **780nm NIR Dye**

Properties

Appearance: **black/brown free flowing powder**

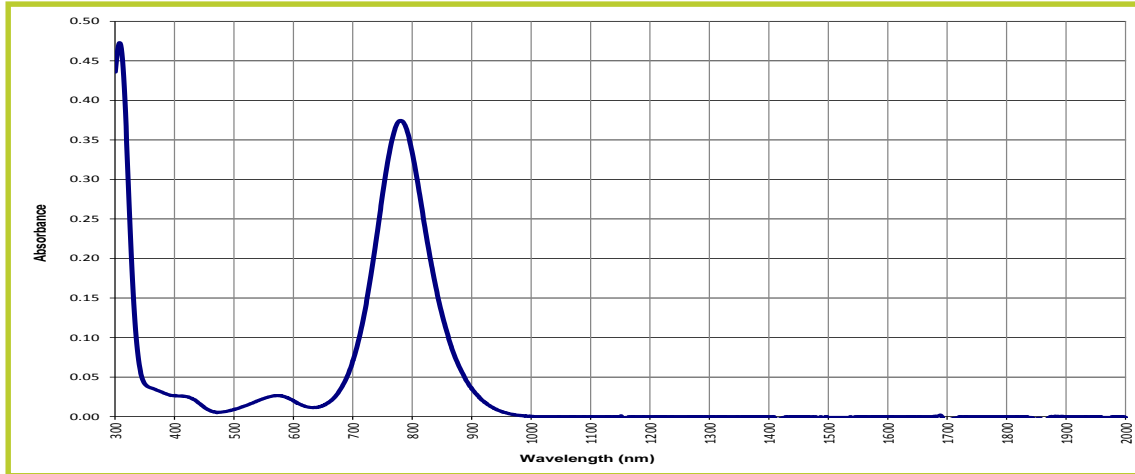
Melting Point: **108°C – 110°C**

Lambda Max: **780 nm**

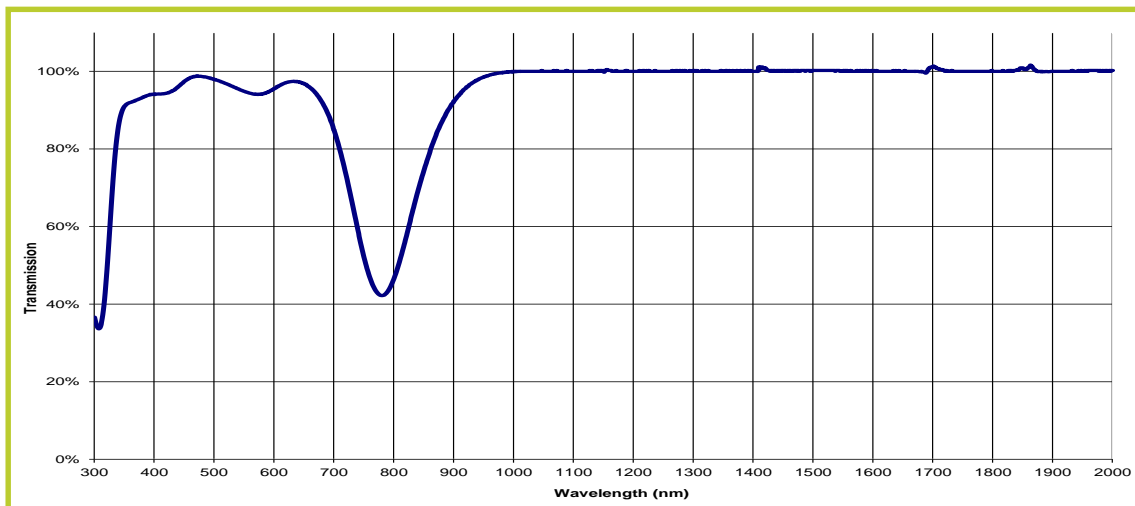
Absorptivity: **53 (L g⁻¹ cm⁻¹)**

Solubility (grams/100 grams of solvent): **MEK = 13, Toluene = 2.5, Xylene = 3.9, Et Acetate = 3.5, THF = 6.5, Cyclohexane = 4.6**

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 7036** 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 – With good absorption around 800 nm, this dye is used to protect against the Diode laser. IR Dye 7036 has excellent visible light transmission. This dye has sufficient thermal stability for molding into small polycarbonate parts.

Acrylic Infrared Filters –With good solubility in PMMA this is the dye of choice for protecting against the Diode laser in acrylic filters and windows.



Adam Gates & Company