

Technical Data Sheet

Product Code: **IR Dye 1151**

Product Description: 1073nm NIR Dye

Properties

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

Melting Point: **173°C – 175°C**

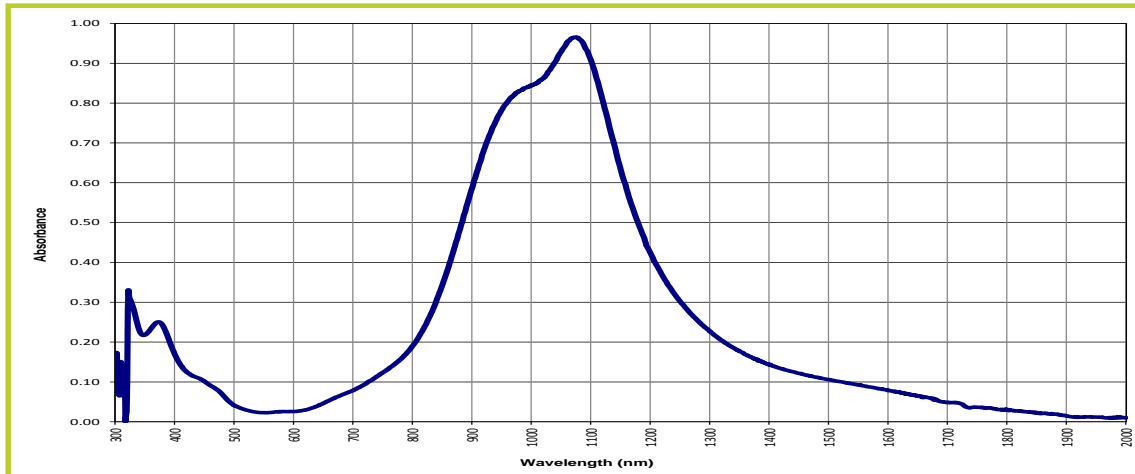
Lambda Max: **1073 nm**

Absorptivity: **72 (L g⁻¹ cm⁻¹)**

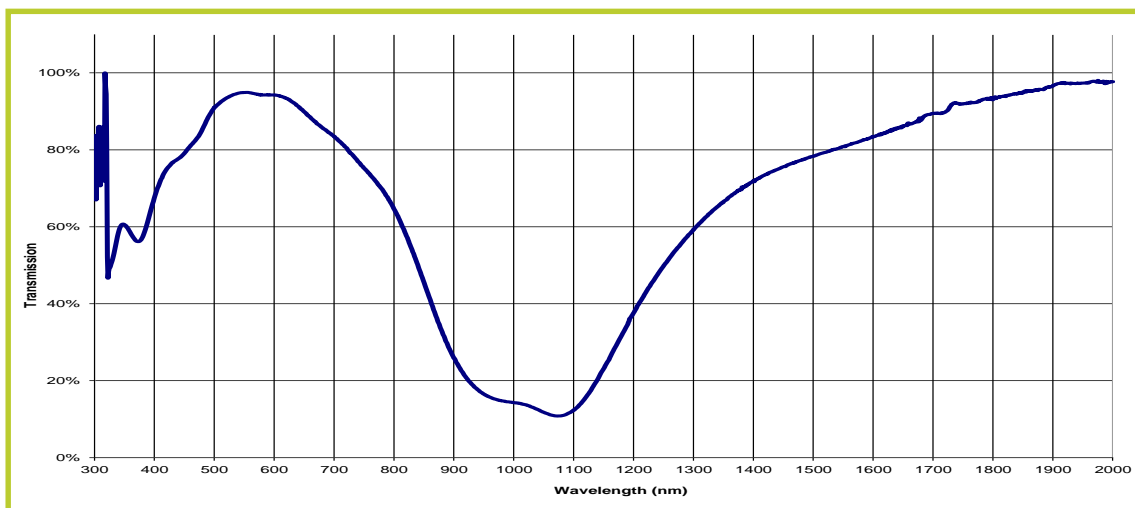
Solubility (grams/100 grams of solvent):

MEK = 5.5 grams, Methyl Cellosolve = 1.5 grams, Ethyl acetate = 2.0 grams, THF = 6.5 grams, Cyclohexanone = 6.1 grams

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 1151** finds use in a broad range of applications where the absorption of Infrared light, and the transmission of Visible light is important:

Suitable for cell cast acrylics

Inks and Coatings – Due to its' excellent solubility in a broad range of organic solvents, including methanol, IR Dye 1151 finds use in applications where the absorption of Infrared energy is needed in inks and coatings. These applications range from heat shielding window films to security inks.

Contains no metal.



Adam Gates & Company