

Technical Data Sheet

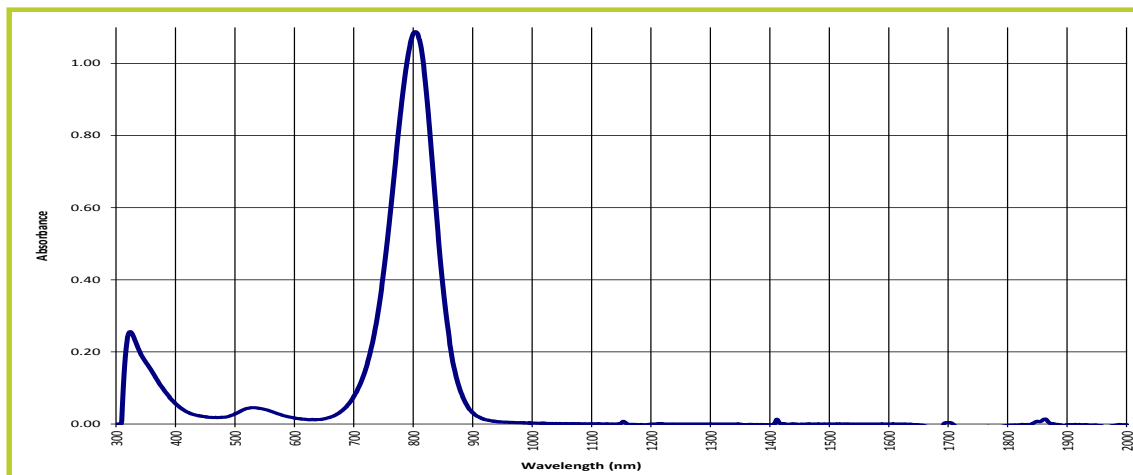
Product Code: **IR Dye 5803**

Product Description: 803nm NIR Dye

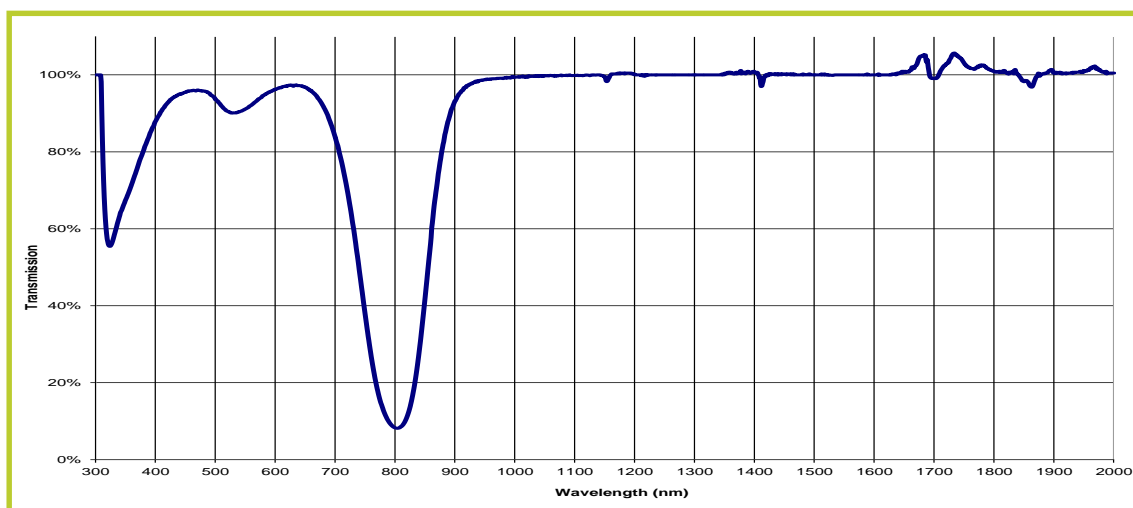
Properties

Appearance: **black free flowing powder**
Melting Point: **304°C – 306°C**
Lambda Max: **803 nm**
Absorptivity: **77.3 (L g⁻¹ cm⁻¹)**
Solubility (grams/100 grams of solvent):
MEK = .19, Xylene = .12, Cyclohexanone = .46

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 5803** 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 5803 has excellent thermal stability and can easily be processed into polycarbonate up to 300oC. It has excellent visible light transmission and affords great protection from the diode laser.

Night Vision Displays – In conjunction with other dyes, IR Dye 5803 finds use in polycarbonate night vision displays. It effectively blocks out the 800 nm region of the spectrum.



Adam Gates & Company