

Technical Data Sheet

Product Code: **IR Dye 5739**

Product Description: 739nm PLAT NIR Dye

Properties

Appearance: **black free flowing powder**

Melting Point: **349°C – 351°C**

Lambda Max: **739 nm**

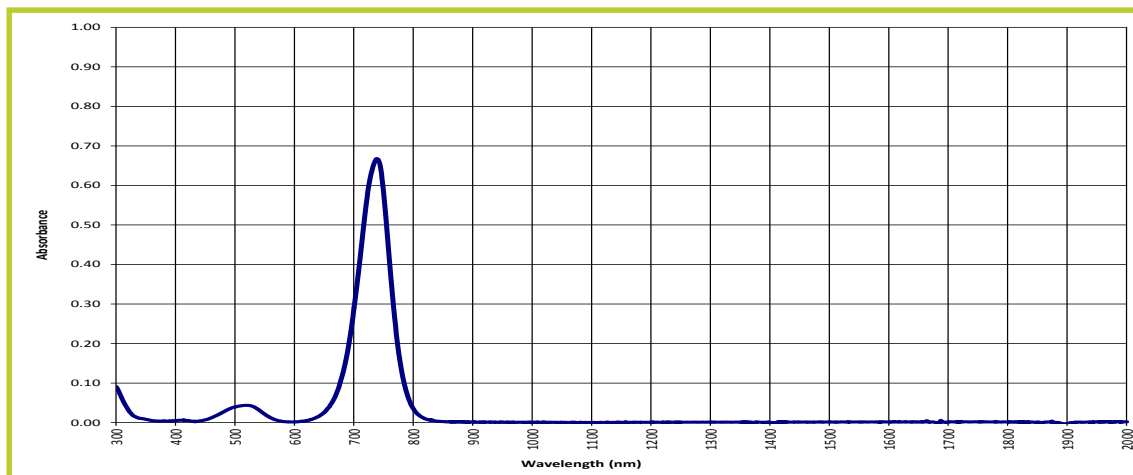
Absorptivity: **96 (L g⁻¹ cm⁻¹)**

Solubility (grams/100 grams of solvent):

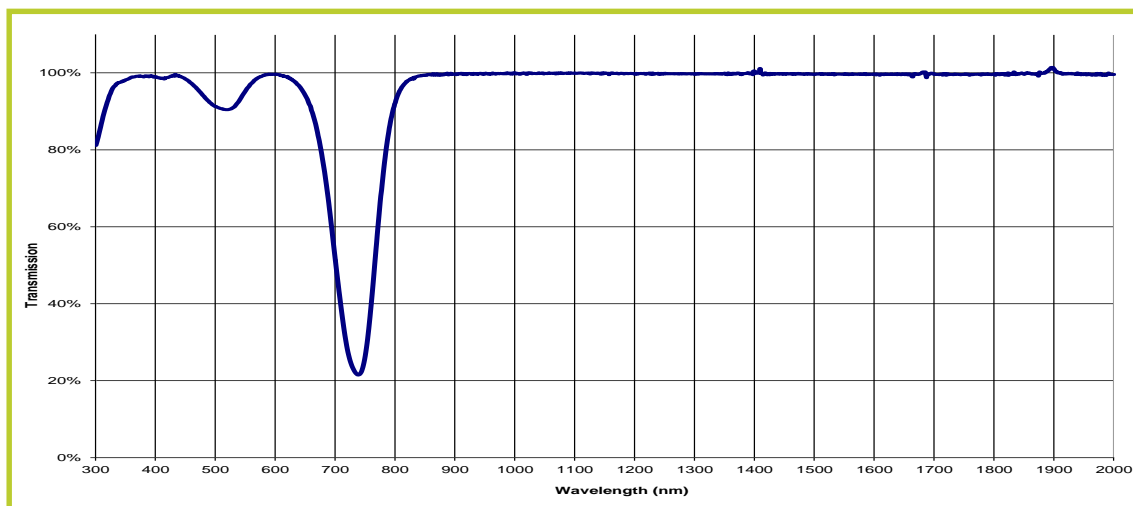
MEK = 0.05, Xylene = 0.06,

Cyclohexanone = 0.10

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **IR Dye 5739** finds use in a broad range of applications where the absorption of Infrared light, and the transmission of Visible light is important:

Contains Platinum

Laser Eye Protection – IR Dye 5739 has excellent thermal stability and can easily be processed into polycarbonate up to 300C. It has excellent visible light transmission and affords great protection from the diode laser.

Night Vision Displays – In conjunction with other dyes, IR Dye 5739 finds use in polycarbonate night vision displays. It effectively blocks out the 739 nm region of the spectrum.



Adam Gates & Company