Technical Data Sheet

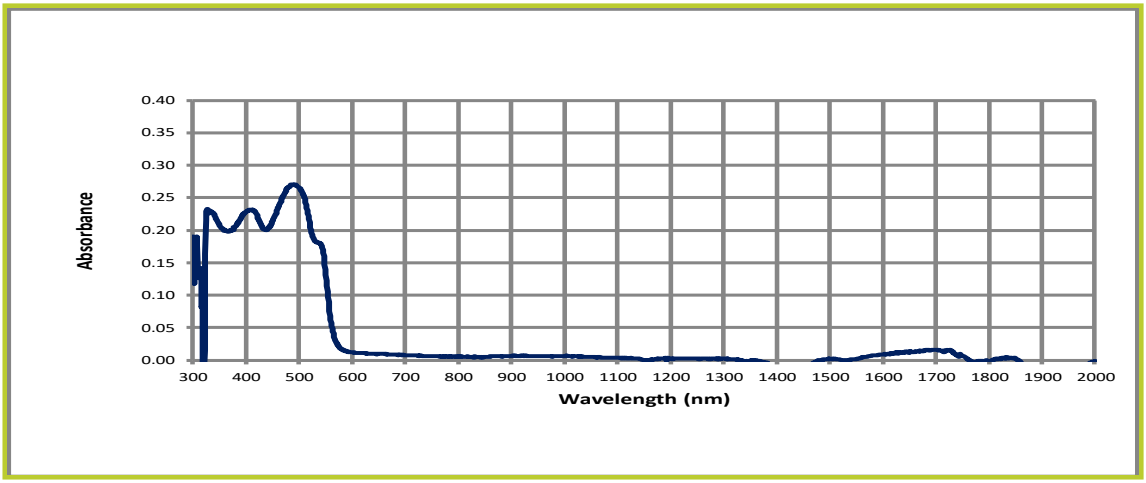
Product Code: **VIS 487**

Product Description: 487nm NIR Dye

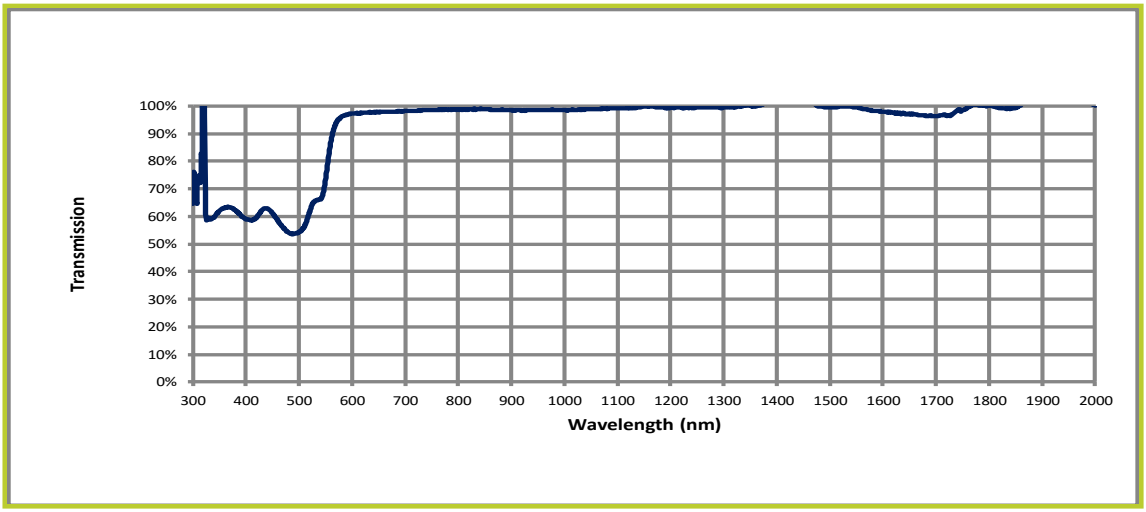
Properties

Appearance: **orange free flowing powder**
Melting Point: **195ºC+**
Lambda Max: **487 nm**
Absorptivity: **33.83 (L g^{-1} cm^{-1})**
Solubility (grams/100 grams of solvent): **acetone**

Absorption Curve



Transmission Curve



Due to its' excellent balance of properties, **VIS 487** finds use in a broad range of applications where the absorption of visible light, and the transmission of infrared light is important:

Due to its' excellent **thermal stability**, this dye provides excellent protection from the 400-550nm range, and can be molded into large parts such as polycarbonate face shields. The excellent thermal stability has allowed molders to use lower flow PC thereby providing their customers with a higher impact strength product.

Polycarbonate Infrared Filters – With good absorption around 532 nm, this dye is used to protect against the Doubled Nd:YAG laser. IR Dye 8532 has excellent visible light transmission. This dye has sufficient thermal stability for molding into polycarbonate parts.

Acrylic Infrared Filters –With good solubility in PMMA, and good stability during the curing process, this is the dye of choice for protecting against the Doubled Nd:YAG laser in acrylic filters and windows.

Adam Gates & Company