

WAVELENGTH SHIFTING PAINT

EJ-298, EJ-298G

EJ-298 is a blue-emitting wavelength shifting paint, and **EJ-298G** is a green emitting wavelength shifting paint. These paints consist of a polyvinyltoluene (PVT) binder and fluorescent dopants dissolved in a xylene solvent. Each paint is nominally 20% solids by weight, and one liter will cover approximately 3.3 square meters with a film 50 μm (0.002 inch) thick.

EJ-298 and EJ-298G may be applied to clean glass plates by brushing or by a draw-bar technique to produce a clear film. Adhesion is best when the painted substrate is well cleaned so as to be free of any invisible residues. The paint should be applied at room temperature or at a slightly elevated temperature for best results. Multiple coats may be applied, but each successive coat should be kept thin in order to avoid softening of the dried layers beneath. The paint is potentially flammable and poses a mild inhalation hazard, and therefore it should be handled in a well ventilated working place and with care to the hazard potential. Application equipment may be cleaned with most general-purpose commercial paint thinner.



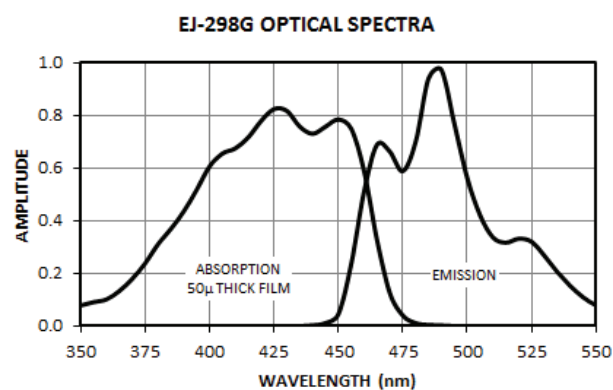
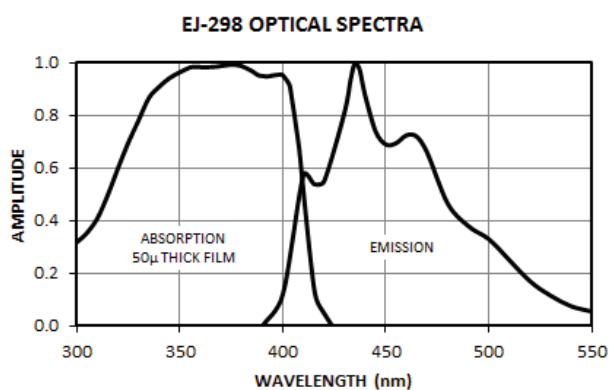
| PROPERTIES | EJ-298 | EJ-298G |
|---------------------------------------|--------|---------|
| Wavelength of Maximum Emission (nm) | 435 | 490 |
| Wavelength of Maximum Absorption (nm) | 375 | 425 |
| Decay Time (ns) | 2 | 8 |
| Quantum Efficiency (%) | > 0.90 | > 0.85 |

| PACKAGE SIZES |
|---------------|
| 450 mL |
| 850 mL |
| 2.5 L |
| 5 L |

CHEMICAL COMPATIBILITY (for dried paint)

Attacked By: Aromatic solvents, Chlorinated solvents, Ketones, Solvent bonding cements, etc.

Stable In: Water, Dilute acids and alkalis, Lower alcohols, Silicone greases.



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