

## DATA SHEET

### MY-143 : Optical Coating / Adhesive

MY-143 is a low refractive index UV curable coating/recoating/adhesive. The material is soft and elastic and it has strong adhesion of 1000 gr/cm. It should be considered when good resistance to thermal cycling is required (given that that its index of 1.43 fits the application). This adhesive is suitable for various substrates, including glass and plastics.

#### Properties

	Liquid state
RI liquid at 589 nm	1.424
Density, g/cm <sup>3</sup>	1.18
Viscosity, cps @ 25°C	1200
	Cured state
RI cured at 589 nm	1.436
RI cured at 950 nm	1.428
Adhesion to glass, 90° Peel, g/cm	1000
Elastic modulus, MPa	25
Tensile Strength, MPa	3.1
Elongation at Break, %	71
Hardness, Shore A	80
Volumetric Shrinkage, %	4

The product is supplied pre-filtered to below 1 micron particles.

#### Storage

1. Avoid unnecessary exposure to ambient light and moisture.
2. Long term storage should be at ambient conditions of 10-30°C.
3. The coating is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 12 months.

#### Application

Curing can be achieved by any source of UV at 300-400nm. Typically, a dose of 1000-2000 mJ/cm<sup>2</sup> is necessary. To prevent tackiness on exposed surfaces, it is recommended to cure in an inert atmosphere (e.g. under nitrogen). There is no need for inert atmosphere when curing between two layers or in a mold (more on inert curing in the Technical Support page on our web site).

Keep the bottle closed in all times when not in use. The material is sensitive to light.

**Safety:** Refer to the SDS

Note: The above information is believed to be reliable, but it is not to be taken as a representation, warrantee or guarantee. Customers should perform their own QC, QA and evaluation tests.

Updated: August 7, 2018