

**DATA SHEET****LM-146-NI : Optical Coating / Adhesive**

**LM-146-NI** is a low modulus (highly flexible) low refractive index UV curable coating/adhesive which does not require inert atmosphere during the curing process. The material was optimized for curing by both UV LED and UV Mercury lamps. The main application is re-coating.

**Properties**

	<b>Liquid state</b>
RI liquid at 589 nm	1.440
Density, g/cm <sup>3</sup>	1.28
Viscosity, cps @ 25°C	1700
color	Clear, yellow
	<b>Cured state</b>
RI cured at 589 nm	1.460
RI cured at 950 nm	1.454
Adhesion to glass, 90° Peel, g/cm	200
Elastic Modulus, MPa	22
Tensile Strength, MPa	3
Elongation to Break	100

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 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. Keep the bottle closed at 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: May 2, 2023**