

DATA SHEET

LM-142-NI: Optical Coating / Adhesive

LM-142-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

	Liquid state
RI liquid at 589 nm	1.410
Density, g/cm ³	1.37
Viscosity, cps @ 25°C	3200
color	Clear, yellow
	Cured state
RI cured at 589 nm	1.423
RI cured at 950 nm	1.417
Adhesion to glass, 90° Peel, g/cm @60cm/min	300
Elastic modulus, MPa	10
Tensile Strength, MPa	3
Elongation to Break	110
Hardness Shore, A	70

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/cm² is necessary. 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.

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