

DATA SHEET

MY-142: Optical Coating / Adhesive

MY-142 is a low refractive index UV curable coating/recoating/adhesive. It is a very flexible and soft polymer, with fair adhesion to glass and other substrates.

Properties

	Liquid state
RI liquid at 589 nm	1.410
Density, g/cm ³	1.237
Viscosity, cps @ 25°C	1050
	Cured state
RI cured at 589 nm	1.420
RI cured at 950 nm	1.416
Adhesion to glass, 90° Peel, g/cm	95
Elastic modulus, MPa	5.3
Tensile Strength, MPa	3.7
Elongation at Break, %	100
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 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/cm² 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 website).

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, warranty or guarantee. Customers should perform their own QC, QA and evaluation tests.

Updated: May 18, 2025