

DATA SHEET

MY-149: Optical Coating / Adhesive

MY-149 is a low refractive index UV curable coating/recoating/adhesive. This is a low modulus flexible adhesive with excellent adhesion to glass, metals, ceramics and most plastics. It is characterized by a high plasticity, which minimizes any stress created by the shrinkage that accompanies UV polymerization.

MY-149 is a soft polymer. It is expected to keep its high adhesion at least over the temperature range -20C° to + 100C°.

Properties

| | |
|-----------------------------------|--------------|
| | Liquid state |
| RI liquid at 589 nm | 1.470 |
| Density, g/cm ³ | 1.04 |
| Viscosity, cps @ 25°C | 1000 |
| | Cured state |
| RI (cured) at 589 nm | 1.490 |
| RI (cured) at 950 nm | 1.483 |
| Adhesion to glass, 90° Peel, g/cm | 600 |
| Elastic modulus, MPa | 4.6 |
| Tensile Strength, MPa | 1.3 |
| Elongation at Break, % | 370 |
| Hardness, Shore A | NA |

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 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.

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