

DATA SHEET

MY-145s: Silicone Based Optical Coating / Adhesive

MY-145s is a low refractive index, silicone based, UV curable coating/adhesive. It is a low modulus, flexible polymer, with good adhesion to glass, quartz, metals and some plastics. Its flexibility improves endurance under thermal cycling and thermal shock.

Properties

	Liquid state
RI liquid at 589 nm	1.440
Density, g/cm ³	1.02
Viscosity, cps @ 25°C	1800
	Cured state
RI cured at 589 nm	1.451
RI cured at 950 nm	1.443
Adhesion to fused silica, 90° Peel, g/cm	235
Elastic modulus, MPa	31
Tensile Strength, MPa	4.4
Elongation at Break, %	120

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 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.

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