

DATA SHEET

OF-134-V2: Low Refractive Index Optical Adhesive

OF-134-V2 is a low refractive index optical adhesive, developed for bonding of glasses and plastics. Typical applications include bonding of lenses and waveguides in AR glasses.

OF-134-V2 includes a proprietary adhesion promoter that improves adhesion, especially under wet conditions (e.g. 85C/85%RH test).

Properties

	Liquid state
RI liquid at 589 nm	1.341
Density, g/cm ³	1.66
Viscosity, cps @ 25°C	3100
	Cured state
RI cured at 589 nm	1.346
RI cured at 950 nm	1.341
Adhesion to glass, 90° Peel, g/cm	28
Elastic modulus, MPa	17
Tensile Strength, MPa	8
Elongation at Break, %	36

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 adhesive is supplied in glass bottles. Keep container closed to avoid moisture penetration.
4. The shelf life is 6 months.

Application

The UV curing is done under nitrogen. Typically, a dose of 1000-2000 mJ/cm² is necessary. Any UV source in the range 300-400 nm can be used.

Keep the bottle closed in all times when not in use. The material is sensitive to both light and moisture.

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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