

Preliminary DATA SHEET

LAM-135-XP-2 : Low Refractive Index Optical Lamination Adhesive

LAM-135-XP2 is a low refractive index UV curable lamination adhesive. It has excellent adhesion to polycarbonate (PC), PET, PMMA and glass. A typical application is lamination of PC or other plastic films, for example in display screens for smartphones, AR-glasses, and VR headsets.

Properties

	Liquid state
RI liquid at 589 nm	1.3435
Density, g/cm ³	1.60
Viscosity, cps @ 25°C	4000
	Cured state
RI cured at 589 nm	1.355
RI cured at 950 nm	1.350
Adhesion to glass-PC, 90° Peel, g/cm	500

Storage

1. Avoid unnecessary exposure to ambient light and moisture.
2. Long term storage should be at ambient conditions of 10-30°C.
3. Do not refrigerate.
4. Keep the bottle/syringe closed to avoid moisture penetration.
5. 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. For ease of application the adhesive may be used preheated up to 80°C. 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.

Updated: April 8, 2024