

Preliminary DATA SHEET

LAM-136-XP-1 : Low Refractive Index Optical Lamination Adhesive

LAM-136-XP-1 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	1.3545
Density, g/cm ³	1.60
Viscosity, cps @ 25°C	5500
	Cured state
RI cured at 589 nm	1.367
RI cured at 950 nm	1.360
Adhesion to PC, T-Peel, g/cm	400

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. The coating is supplied in glass bottles. Keep container 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 60°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: July 06, 2022