

Preliminary DATA SHEET

LAM-1425-XP:

PFAS-FREE Low Refractive Index Optical Lamination Adhesive

LAM-1425 is a PFAS-Free low refractive index UV curable lamination adhesive, designed for lamination involving plastic films or glass surfaces. A typical application is lamination of two glass surfaces, or lamination of a glass surface with plastic films, such as polycarbonate, PET and PMMA, for example in display screens for smartphones, AR glasses, and VR headsets.

Properties

	Liquid state
RI liquid at 589 nm	1.420
Density, g/cm ³	1.0
Viscosity, cps @ 25°C	4500-5500
	Cured state
RI cured at 589 nm	1.425
RI cured at 950 nm	1.418
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. The adhesive is supplied in bottles or syringes. 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/syringe 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: May 23, 2024