

Technical Datasheet

OPTOCAST

AC-3718

OPTOCAST AC-3718 is a UV curable laminating adhesive suitable for many types of plastic. It is also a good adhesive between pieces of glass. It cures to a very clear film. OPTOCAST AC-3718 is available in syringes or liters.

Properties Uncured

Color	Clear
Viscosity	50 cps
Specific Gravity	1.06
Liquid Refractive Index	1.4730
Pot life	1 year at 25°C
Shelf life	1 year at 25°C

Properties Cured

Color	Clear
Hardness	Rex 78D
Tg	60°C
CTE	93 ppm
Young's Modulus	320,000 psi
Tensile Strength	7200 psi
Elongation	4%
Lap Shear Strength NBO to NBO	120 psi
Lab Shear Strength Glass to Glass	3900 psi
Weight loss 250 hours @ 100°C	1.46%
Water Absorption 250 hours @ 85°C/85% RH	1.15%
Water Soak Absorption 250 hours @ RT	3.75%

Cure Profile

OPTOCAST AC-3718 is cured by UV only.

- ◆ Minimum UV cure energy is 10 mJ.
- ◆ Total cure energy required depends upon the thickness of the bondline and other environmental factors.

Storage and Handling

OPTOCAST AC-3718 is shipped and stored at room temperatures.

- ◆ Avoid exposure to elevated temperatures.
- ◆ Shield from all light in storage.
- ◆ Shield from UV light during dispensing.
- ◆ Minimize air exposure.
- ◆ Pot life at 25°C is 12 months.
- ◆ Shelf life at 25°C is 12 months.

IMPORTANT NOTICE

Good housekeeping rules are always important. Provide ample ventilation in all areas of handling, and use. Avoid prolonged breathing of possible fumes. Minimize skin contact. Use of goggles, rubber gloves, and protective creams is recommended. Always wash exposed areas immediately using warm water and soap followed by rinsing with clear water. If material comes in contact with eyes, flush with clear water for fifteen minutes and consult a physician immediately.

All data in this bulletin are based on our own research and the research of others. They are believed to be accurate. However, no guarantee of accuracy is made. Product description is sold without warranty except conformity to specification and on condition that the purchasers shall determine suitability for their particular purpose.

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