

AC A1900

UV-curable screen printable and insulation layer for touch panel display

Features

- Excellent screen-printable properties on glass and plastic
- Good adhesion to glass and plastics
- Low shrinkage
- Flexible

Description

- UV-curable and screen-printable material

APPLICATIONS

Screen printable optical insulated material for touch panel and display applications.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	11,500-13,500
Storage (°C)	15-25
Shelf life (15 - 25 °C)	6 months
Pot life (15 - 25 °C)	3 months

Cured film

Shrinkage (linear, %)	<0.3
Outgas, weight % (100°C, 120 hr, air)	< 2.0
Water Absorption (% , 25°C until saturation)	-1.0
Glass transition temperature (°C, DMA)	43
Operating temperature (°C)	-60 to 110
Volume Resistivity (ohm.cm)	< 1 x 10 ¹³

Physical properties tested at 25°C, 50% RH (ASTM D638)

Tensile, MPa	2.5
Elongation (%)	100
Modulus, MPa	4

UV curing conditions

<u>Flood cure system – UV dose (J/cm²), air</u>	0.6 - 1.0
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*** Minimum intensity recommended for Spot lamp system: 500 mW/cm²

***Minimum intensity recommended for Flood lamp system: 49 W/cm or 125 WPI

SCREEN PRINTING

AC A1900 can be screened onto glass, plastic, ITO or metal oxide surfaces using a polyester mesh. An application pressure of 30 psi is recommended with a distance of 1 to 6 mm between the screen and substrate surface. Fine-tuning the screen-printing process is required for achieving optimum coating performances.

SAFETY AND HANDLING

The un-cured adhesive can be cleaned from apparatus with isopropyl alcohol (IPA), methyl ethyl ketone (MEK), or commercial alcohol based cleaning solution.

Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, **gloves and safety goggles**. Read [Material Safety Data Sheet](#) before handling.

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