

AC AP1740

Screen-Printable, High Heat Resistant, UV-Curable Pressure Sensitive Adhesive (PSA)

Features

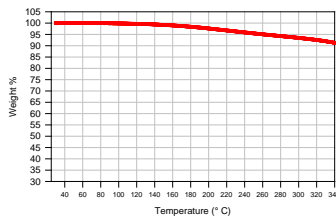
- Excellent adhesion to many types of substrates
- High Heat Resistant
- Excellent screen-printability
- Serve both as insulating and bonding layer for Touch Panel
- Excellent adhesion and wetting
- Suitable for cold or hot laminating process
- Suitable for roll on roll process

Description

- UV-Curable, Screen-Printable PSA

Thermogravimetric analysis

- Thermal stability of cured adhesive was studied by thermogravimetric analysis in nitrogen at a scan rate of 20°C/min



APPLICATIONS

Bonding and laminating applications including touch panels.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	12,000 – 17,000
Storage (°C)	15 to 25 °C
Shelf life (15 - 25 °C)	6 months
Pot life (15 - 25 °C)	3 months

Cured film

Shrinkage (linear, %) <0.3

Glass transition temperature (°C, DMA) 8

Hardness – Shore A 35

Volume resistivity (Ω.cm) > 1 x 10¹³

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

Elongation (%) 123

Modulus, psi (kgf/mm²) 49 (0.34)

Operating temperature (°C)

UV curing conditions

Flood cure system* – UV dose (J/cm²), air 0.6 to 0.8

Laminating steps: pressure of 30 – 50 psi or 3 – 4 Kgf/cm² can be used to laminate the layers

* Intensity recommended for Flood lamp system: 49 WPCM or 125 WPI

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.

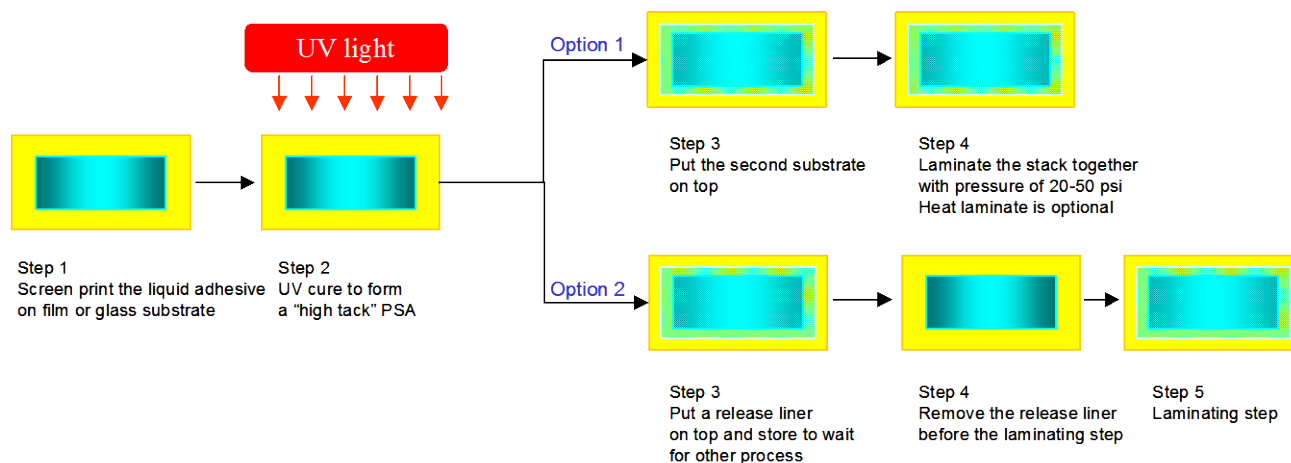
Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, **gloves and safety goggles**. Read Material Safety Data Sheet before handling.

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Laminating process – roll to roll process:



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