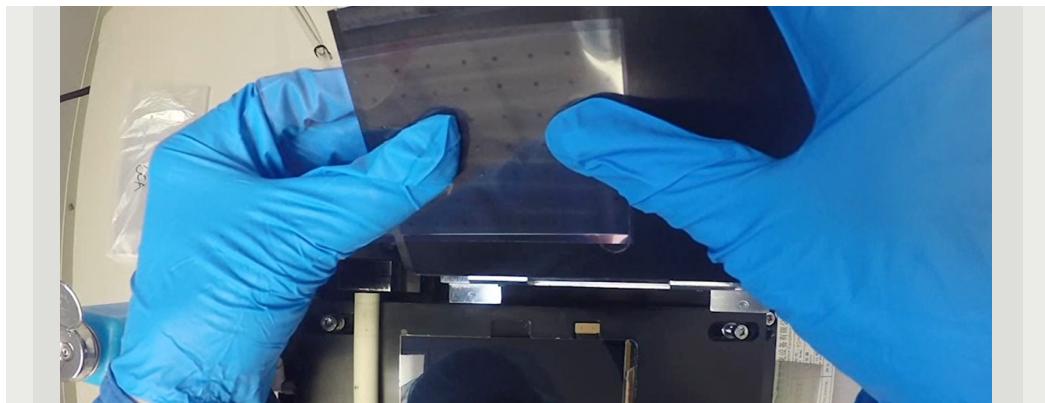


Introduction

LCDs that need component integrations are often integrated using a bonding process. Bonding provides added overall strength and durability to a unit's structure. Additionally, bonding is used to provide optical clarity, ruggedization and increased readability as a value add on its own.

OCA (optically clear adhesive) bonding is an adhesive process in which a specific form of adhesive is integrated into the panel stack up to provide an adhesive grip for components inside the LCD.

The OCA bond method uses a dry film material that is pressure-sensitive which allows for precise and unique processing during production.



About OCA Bonding

Why OCA Bonding?

- Increased optics: readability, contrast, UV protection
- Performance: better touch response, brighter luminance
- Strength: scratch, moisture, vibration, impact resistant, up to 300% increase in strength
- Bond strength: high adhesion, secure bond, no delamination or degradation
- OCA material characteristics: resistant to UV light, non-yellowing, acid-free, colorless, high purity, high transparency
- Cost effective, up to 50% savings versus optical bonding services

When To Use This Service

- Ideal for use in small frames and thin applications
- Suitable to harsh environments
- Great for ambient light conditions
- Mobile and tablet devices
- Low cost requirements

Prepare Details

- LCD part number
- Application environment
- Touchscreen or substrate material to be bonded, if applicable
- Placement drawings, if available
- Overall thickness requirements
- MIL STD requirements

Industries

- Avionics
- Financial
- Marine
- Marketing
- Medical
- Military
- Point of Sale
- Transportation

Customer Benefits

- Excellent readability and contrast with anti-reflection and anti-glare features
- No condensation or fogging by eliminating air gap
- Providing robust construction by shock and vibration absorption
- Non-yellowing
- Clean, precise method of integration
- Can be used on mobile and tablet devices
- Silicone polymer material provides resistance to impact, chemical contact, and atmospheric corrosion