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## Norland Optical Adhesive NOA 86TLH, 1 oz. Application Bottle

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Norland Optical Adhesive NOA86TLH, 1 oz. Application Bottle, #14-797

Stock **#14-797** [CONTACT US](#)

⊖ 1 ⊕ **\$126<sup>.70</sup>**

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-4        | <b>\$126.70</b> each          |
| Qty 5-11       | <b>\$114.10</b> each          |
| Qty 12+        | <b>\$108.50</b> each          |
| Need More?     | <a href="#">Request Quote</a> |

### Product Downloads

### General

|          |                 |
|----------|-----------------|
| 1        | Size (oz):      |
| 86TLH    | Norland Number: |
| 4 months | Shelf Life:     |
|          | Type:           |

Bottle

**Typical Applications:**

Higher viscosity optical adhesive meets Belcore specification of 85C/85RH for bonding glass. Cured with UV, visible light and/or heat.

**Note:**

Heat curing (-H suffix) adhesives are oxygen inhibited. If used on the surface of a substrate, the adhesive will need to be cured under an inert atmosphere (like nitrogen) to fully cure. Liquid adhesives cannot be put in a vacuum because it will remove the stabilizers and sensitizers causing the adhesive to not cure properly.

**Cure:**

UV/MS and/or Heat

### Optical Properties

**Index of Refraction (n<sub>d</sub>):**

1.55 @ 589nm

**Absorption Range (nm):**

314 - 420

### Material Properties

**Glass Bonding:**

Excellent

**Metal Bonding:**

Excellent

**Plastic Bonding:**

Excellent/Good

**Viscosity (cps):**

8000 - 10,000

**Bonding Type:**

Glass to Glass/Metal

**Energy for Full Cure (J/cm<sup>2</sup>):**

2.5

### Environmental & Durability Factors

**Durability:**

Hard & Brittle

### Regulatory Compliance

**RoHS 2015:**

[Compliant](#)

**Certificate of Conformance:**

[View](#)

**Reach 251:**

[Compliant](#)

## Product Details

- Excellent Optical Qualities
- Adhesives for Glass, Metal, and Plastic Bonding
- Cure Quickly when Exposed to UV Light
- [Preloaded Norland Optical Adhesive Syringes](#) Also Available

Norland Optical Adhesives are clear, solvent-free optical adhesives designed to fully cure in only minutes when exposed to ultraviolet light. These adhesives are used in precision alignment or positioning applications that require a robust and resilient bond. Norland Optical Adhesives feature a variety of bonding types, including but not limited to glass to glass, glass to glass/metal, and plastic to plastic/glass. To use Norland Optical Adhesives, apply the adhesive to the optical surface, position the components, and use a [UV light source](#) to set the components in place. Since the adhesive will not cure until exposed to UV light, time can be taken during the positioning process to perfect product alignment.

## Technical Information

**NORLAND OPTICAL ADHESIVES (NOA) APPLICATION NOTES**

| Title  | Description   |
|--|---|
| <a href="#">Applying Adhesive</a>                    | Covers best practices to use when applying Norland Optical Adhesives to ensure an even adhesive layer while avoiding air bubbles. |
| <a href="#">Chemical Resistance of NOA</a>           | Covers the effects of various chemicals on Norland Optical Adhesives including acids, bases, and solvents.                        |
| <a href="#">Preventing Lens Separations with NOA</a> | Covers best practices to avoid adhesive failures when bonding optical elements.   |
| <a href="#">Separating Lenses Bonded with NOA</a>    | Covers how to unbond optical elements bonded with Norland Optical Adhesives.  |