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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 ⊕ £72<sup>40</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-4	£72.40 each
Qty 5-11	£65.20 each
Qty 12+	£62.00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Size (oz):

1

Norland Number:

86TLH

Shelf Life:

4 months

Bottle **Type:**

**Typical Applications:**  
Higher viscosity optical adhesive meets Bellcore 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.

UV/MS and/or Heat **Cure:**

## Optical Properties

1.55 @ 589nm **Index of Refraction (n<sub>d</sub>):**

314 - 420 **Absorption Range (nm):**

## Material Properties

Excellent **Glass Bonding:**

Excellent **Metal Bonding:**

Excellent/Good **Plastic Bonding:**

8000 - 10,000 **Viscosity (cps):**

Glass to Glass/Metal **Bonding Type:**

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

## Environmental & Durability Factors

Hard & Brittle **Durability:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 251:**

## 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.