

[See all 48 Products in Family](#)

## Norland Optical Adhesive NOA 146H, 1 oz. Application Bottle

See More by [Norland](#)



1 oz. Application Bottle of NOA (NOA60 shown as an example)

Stock **#12-866** **5 In Stock**

⊖ 1 ⊕ **A\$144.<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-4	<b>A\$144.80</b> each
Qty 5-11	<b>A\$130.40</b> each
Qty 12+	<b>A\$124.00</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

1	Size (oz):
146H	Norland Number:
4 months	Shelf Life:
	Type:

Bottle

**Typical Applications:**

Low viscosity adhesive for bonding glass or plastic.  
Cured with UV 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 ( $n_d$ ):**

1.46 @ 589nm

**Absorption Range (nm):**

320 - 395

### Material Properties

**Glass Bonding:**

Excellent

**Metal Bonding:**

Good

**Plastic Bonding:**

Fair

**Viscosity (cps):**

40 @ 25° C

**Bonding Type:**

Plastic to Plastic/Glass

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

4.5

### Environmental & Durability Factors

**Durability:**

Hard

### 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.