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

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

Stock #12-866 **3 In Stock**

⊖ 1 ⊕ MRP ₹9,611

● Price inclusive of all taxes

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Volume Pricing	
Qty 1-4	₹9,611 each
Qty 5-11	₹8,655 each
Qty 12+	₹8,231 each
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## Product Downloads

### General

1 **Size (oz):**

146H **Norland Number:**

4 months **Shelf Life:**

Bottle	<b>Type:</b>
<b>Typical Applications:</b> Low viscosity adhesive for bonding glass or plastic. Cured with UV light and/or heat.	
<b>Note:</b> 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	<b>Cure:</b>
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## Optical Properties

1.46 @ 589nm	<b>Index of Refraction (n<sub>d</sub>):</b>
320 - 395	<b>Absorption Range (nm):</b>

## Material Properties

Excellent	<b>Glass Bonding:</b>
Good	<b>Metal Bonding:</b>
Fair	<b>Plastic Bonding:</b>
40 @ 25° C	<b>Viscosity (cps):</b>
Plastic to Plastic/Glass	<b>Bonding Type:</b>
4.5	<b>Energy for Full Cure (J/cm<sup>2</sup>):</b>

## Environmental & Durability Factors

Hard	<b>Durability:</b>
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## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 253:</b>
United States	<b>Country of Origin:</b>
<b>Imported By:</b> Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	

## 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.

Norland Optical Adhesives are clear, solvent-free, one-part adhesives designed for precision optical bonding applications requiring excellent optical quality and a durable, low-stress bond.

These adhesives cure rapidly when exposed to UV light, gelling in seconds and fully curing in minutes, which allows users to precisely align lenses, prisms, filters, and other components before initiating cure.

They are widely used in photonics and optomechanical assembly for bonding glass-to-glass, glass-to-metal, and glass-to-plastic interfaces where fast, controlled positioning is critical.

Standard UV-curing formulations provide long working time since the adhesive remains liquid until exposed to UV, enabling high-precision alignment and simplified assembly workflows.

Select formulations with an "-H" suffix incorporate a secondary heat cure mechanism, allowing the adhesive to fully polymerize in shadowed areas or through opaque substrates where UV light cannot reach.

These heat-curable adhesives typically use a latent thermal catalyst (e.g., ~125 °C cure) to complete the cure and achieve maximum physical properties after initial UV fixation.

For product usage, apply the adhesive, align components, use UV light for initial set, and apply heat when required to ensure complete cure throughout the bond line, especially in complex geometries.

Important technical considerations include selecting the appropriate refractive index and bonding compatibility, as well as accounting for oxygen inhibition in heat-curing (-H) grades, which may require inert atmosphere curing for exposed surfaces.

# 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.

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