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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 **5 In Stock**

MRP ₹9,611

**1** Price inclusive of all taxes

**ADD TO CART**

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>
<b>Optical Properties</b>	
1.46 @ 589nm	<b>Index of Refraction (n<sub>d</sub>):</b>
320 - 395	<b>Absorption Range (nm):</b>
<b>Material Properties</b>	
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>
<b>Environmental &amp; Durability Factors</b>	
Hard	<b>Durability:</b>
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 251:</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.

## 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.