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## Norland Optical Adhesive NOA 160, 1 oz. Application Bottle

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Norland Optical Adhesive NOA 160, 1 oz. Application Bottle

Stock **#12-860** [CONTACT US](#)

⊖ 1 ⊕ €90<sup>.50</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-4	€90,50 each
Qty 5-11	€81,50 each
Qty 12+	€77,50 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Size (oz):  
1

Norland Number:  
160

Shelf Life:  
4 months

Bottle **Type:**

**Typical Applications:**  
Higher viscosity, high refractive index adhesive for bonding glass to glass or plastic.

UV **Cure:**

## Optical Properties

1.60 @ 589nm **Index of Refraction ( $n_d$ ):**

315 - 395 **Absorption Range (nm):**

## Material Properties

Excellent **Glass Bonding:**

Good **Metal Bonding:**

Excellent **Plastic Bonding:**

2200 **Viscosity (cps):**

Glass to Glass **Bonding Type:**

6 **Energy for Full Cure ( $J/cm^2$ ):**

## Environmental & Durability Factors

Soft & Rubbery **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.

