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# Preloaded Norland Optical Adhesive NOA 160 Dispensing Barrel (3cc)

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3cc Dispensing Barrel for NOA (NOA 60 shown as an example)

Stock #12-858 **2 In Stock**

⊖ 1 ⊕ £22.<sup>00</sup>

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Volume Pricing	
Qty 1-11	£22.00 each
Qty 12-19	£19.84 each
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**i** Prices shown are exclusive of VAT/local taxes

## Product Downloads

## General

0.1                      **Size (oz):**

160                      **Norland Number:**

4 months              **Shelf Life:**

**Type:**

Barrel

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

**Note:**  
Contains 2g of adhesive

### Optical Properties

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

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

### Material Properties

**Glass Bonding:**  
Excellent

**Metal Bonding:**  
Good

**Plastic Bonding:**  
Excellent

**Viscosity (cps):**  
2200

**Bonding Type:**  
Glass to Glass

**Energy for Full Cure (J/cm<sup>2</sup>):**  
6

### Environmental & Durability Factors

**Durability:**  
Soft & Rubbery

### Regulatory Compliance

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

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

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

## Product Details

- Dispensing Syringes Preloaded with 2 or 10g of Adhesive
- Adhesives for Glass, Metal, and Plastic Bonding
- Require a Dispensing Unit & Dispenser Tips for Use
- [Applicator and Bulk Bottles](#) of Norland Adhesive Also Available

Preloaded Norland Optical Adhesive Syringes are pneumatic dispensing syringes preloaded with either 2g or 10g of Norland Optical Adhesive. Norland Optical Adhesives are one-part, UV curing adhesives that are used for glass, metal, and plastic bonding. A range of adhesives are available to meet specific application requirements such as ML-A-3920 for defense applications, low outgassing for aerospace applications, or UV transmission for UV optical applications. Preloaded Norland Optical Adhesive Syringes require a [dispensing unit](#) and [dispensing tips](#) for use and are ideal for applications requiring precise control of the amount of applied adhesive. Applicators and Bulk Bottles of Norland Adhesive are also available.

## 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.

