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# Norland Optical Adhesive NOA 86TLH, 1 oz. Application Bottle

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Norland Optical Adhesive NOA86TLH, 1 oz. Application Bottle, #14-797

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-

1

+

**S\$126<sup>.70</sup>**

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-4        | <b>S\$126.70</b> each         |
| Qty 5-11       | <b>S\$114.10</b> each         |
| Qty 12+        | <b>S\$108.50</b> each         |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General  |                 |
|----------|-----------------|
| 1        | Size (oz):      |
| 86TLH    | Norland Number: |
| 4 months | Shelf Life:     |
|          | Type:           |

|                                                                                                                                                                                                                                                                                                                                                         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Bottle                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Typical Applications:</b><br>Higher viscosity optical adhesive meets Belcore specification of 85C/85RH for bonding glass. Cured with UV, visible light and/or heat.                                                                                                                                                                                  |  |
| <b>Note:</b><br>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. |  |

| Optical Properties |                                             |
|--------------------|---------------------------------------------|
| 1.55 @ 589nm       | <b>Index of Refraction (n<sub>d</sub>):</b> |
| 314 - 420          | <b>Absorption Range (nm):</b>               |

| Material Properties  |                                      |
|----------------------|--------------------------------------|
| Excellent            | <b>Glass Bonding:</b>                |
| Excellent            | <b>Metal Bonding:</b>                |
| Excellent/Good       | <b>Plastic Bonding:</b>              |
| 8000 - 10,000        | <b>Viscosity (cps):</b>              |
| Glass to Glass/Metal | <b>Bonding Type:</b>                 |
| 2.5                  | <b>Energy for Full Cure (J/cm²):</b> |

| Environmental & Durability Factors |                    |
|------------------------------------|--------------------|
| Hard & Brittle                     | <b>Durability:</b> |

| 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 251:</b>                  |

## 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.                                                      |