

**Manufacturer:**

Dymax

**Product Name:**

Dymax OP-83-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

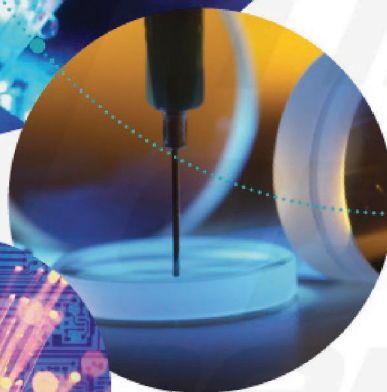
**Manufacturer Part Number:**

OP-83-LS-10ML



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Click here for more details on the Dymax OP-83-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe



LIGHT-CURABLE ADHESIVES FOR  
LENS AND FIBER OPTIC BONDING



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## OP-Series Products

| Product     | Description                                                                                                                                                                             | Shrinkage        | Refractive Index (Cured) | Viscosity, cP | Durometer Hardness* |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------|---------------|---------------------|
| OP-24-REV-B | Clear; Multi-Cure* (UV/light/heat/activator); tack and bond with UV, heat, or activator where light won't reach; lens mounting                                                          | 0.39% Linear     | 1.50                     | 800           | D80                 |
| OP-29       | Clear; UV light cure; flexible; resists yellowing; low stress; good for doublet bonding, lens mounting, or fiber optic splicing                                                         | 0.79% Linear     | 1.50                     | 2,500         | D60                 |
| OP-29-GEL   | Clear; UV light cure; flexible; resists yellowing; low stress; gel viscosity for minimum movement after dispense; good for doublet bonding, lens mounting, or fiber optic splicing      | 0.79% Linear     | 1.50                     | 20,000        | D65                 |
| OP-60       | Opaque; low shrinkage; low outgassing; low CTE; good for precise positioning of lenses, prisms, and other optical components                                                            | 0.80% Linear     | N/A                      | 150,000       | D80                 |
| OP-81-LS    | Off white/opaque epoxy; UV/visible light cure or LED curable; low temp heat cure that can be used as the sole cure mechanism or secondary for shadow areas; low shrinkage; low CTE      | 1.50% Volumetric | N/A                      | 60,000        | D90                 |
| OP-83-LS    | Off white/opaque epoxy; UV/visible light cure or LED curable; low temp heat cure that can be used as the sole cure mechanism or secondary for shadow areas; very low shrinkage; low CTE | 1.10% Volumetric | N/A                      | 86,000        | D94                 |

\*D = Rigid / A = Elastic / OO = Soft



Diode Curing



Lens Bonding

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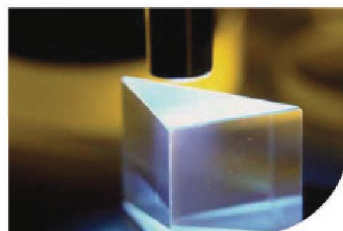
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| Product     | T <sub>g</sub> Glass Transition Temperature °C (By DMA) | Tensile Bar Strength ASTM D638 |                                  |            | Adhesion |       |       |         |
|-------------|---------------------------------------------------------|--------------------------------|----------------------------------|------------|----------|-------|-------|---------|
|             |                                                         | Tensile, psi [MPa]             | Modulus of Elasticity, psi [MPa] | Elongation | Ceramic  | Glass | Metal | Plastic |
| OP-24-REV-B | 79 u                                                    | 5,200 [36]                     | 320,000 [2,206]                  | 35%        |          | •     | •     | •       |
| OP-29       | 64 u                                                    | 3,000 [22]                     | 34,000 [234]                     | 110%       |          | •     | •     | ○       |
| OP-29-GEL   | 56 u                                                    | 3,500 [24]                     | 30,000 [200]                     | 80%        |          | •     | •     | ○       |
| OP-60       | 114 u                                                   | 4,900 [34]                     | 146,250 [1,008]                  | 2.4%       | •        | •     | •     | •       |
| OP-81-LS    | 153 u                                                   | 45 [6,600]                     | 1,600 [230,600]                  | 2%         | ○        | ○     | •     | •       |
| OP-83-LS    | 184 u                                                   | 36.7 [5,328]                   | 3,983 [578,000]                  | 1.2%       |          | •     | •     | •       |

u = UV-only cure    • Recommended    ○ Limited applications



Lens Laminating



Prism Curing

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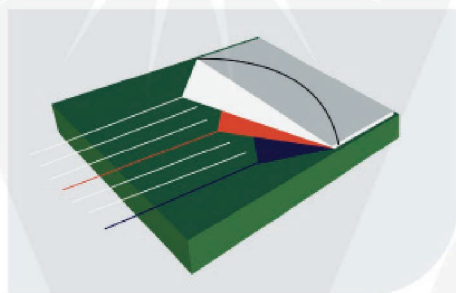


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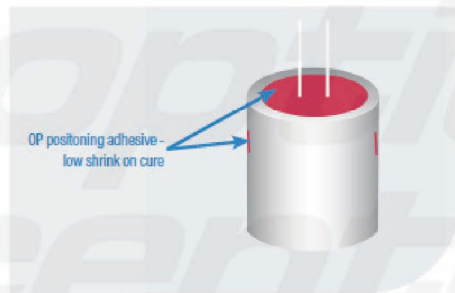
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## Applications

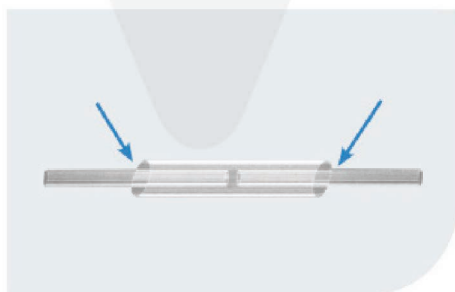
- Diode Assembly
- Lens Bonding
- Lens Laminating
- Prism Curing
- VCSEL Potting
- Fiber Optic Bonding
- Lens Positioning
- LiDAR Assembly
- Camera Module Bonding



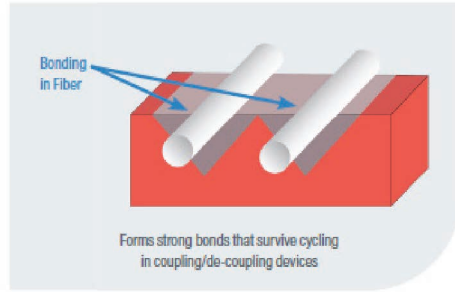
Wavelength Division Multiplexing Bonding Fibers and Diffraction Gratings



Positioning Laser Diodes (VCSELs)



Fiber Optic Through Ferrule or Fiber Pigtail



Fiber Optic "V" Groove Bond

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