SELECTION GUIDE

Manufacturer:
Dymax

Product Name:
Dymax OP-81-LS Low Shrinkage Epoxy, Off White Opaque to Charcoal Translucent Gel, Hybrid UV, LED & Heat Cure - 10ml Syringe

Manufacturer Part Number:
OP-81-LS-10ML

Click here for more details on the Dymax OP-81-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

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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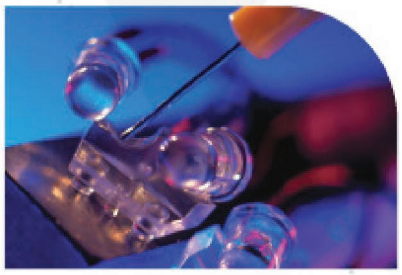
OP-Series Products

Product	Description	Shrinkage	Refractive Index (Cured)	Viscosity, cP	Durometer Hardness*
OP-24-REV-B	Clear; Multi-Cure® (UV/light/heat/activator); tack ard 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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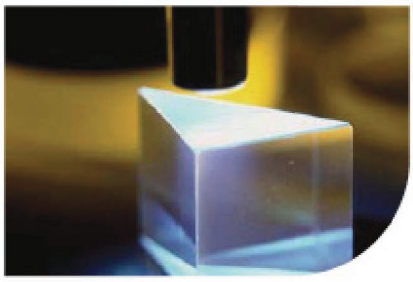
Product	Tg, Glass Transition Temperature °C (By D MA)	Tensile Bar Strength ASTM D638			Adhesion			
		Tensile, psi [MPa]	Modulus of Elasticity, psi [MPa]	Elongation	Ceramic	Glass	Metal	Plastic
OP-24-REV-B	79 u	5,200 [36]	320,000 [2,206]	35%		•	•	•
OP-29	64 u	3,000 [22]	34,000 [234]	110%		•	•	○
OP-29-GEL	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

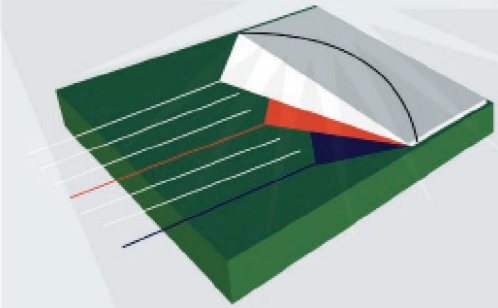
Lens Laminating



Prism Curing

Applications

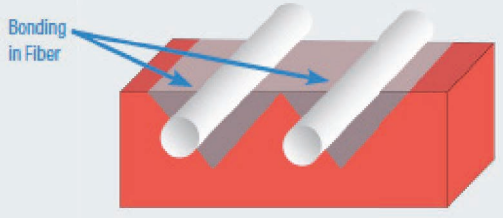
- Diode Assembly
- Lens Bonding
- Lens Laminating
- Prism Curing
- VCSEL Potting
- Fiber Optic Bonding
- Lens Positioning
- LiDAR Assembly
- Camera Module Bonding



Wavelength Division Multiplexing Bonding Fibers and Diffraction Gratings

Positioning Laser Diodes (VCSEL's)

Fiber Optic Through Ferrule or Fiber Pigtailing



Forms strong bonds that survive cycling in coupling/de-coupling devices

Fiber Optic "V" Grove Bond

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