

Dymax UV Curable Optical Assembly Adhesives



Description

Dymax OP low-stress, low-movement **UV curable optical assembly adhesives** cure in seconds with UV/visible light to provide strength and clarity. Optically clear, high-tensile-strength bonds of 3,000 psi and shrinkage as low as 0.1% are possible.

UV curable optical adhesives for optical assembly and lens bonding include grades for VCSEL potting, lens fixturing, lens laminating, lens positioning, and fiber-optic assembly. Dymax **optically clear adhesives** feature low-shrink, low-stress characteristics, are single component, and exhibit gap filling to 6mm.



OP series UV/Visible light cure optical adhesives are ideal for optical assembly applications such as lens and optical mounting and the attachment of ceramic, glass, quartz, metal, and plastic components.

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Features & Benefits



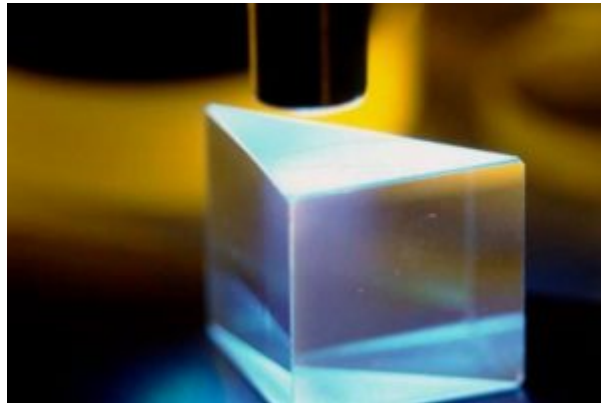
- UV/Visible light cure in seconds
- Optically clear adhesive with excellent light transmission properties
- Low shrinkage, low to no movement during cure and thermal excursions (from -50°C to 200°C)
- Exceptionally low shrinkage to 0.1% or less
- Low to high glass transition points (Tg)
- Low outgassing
- Solvent-free
- Low stress on bonded parts regardless of Tg
- High strength optical adhesives
- One component, no mixing is required
- Long room-temperature shelf life
- Gap filling to 6mm or more
- Low odour

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Applications

- Lens fixturing, laminating, positioning



- Fibre optics
- LiDAR assembly
- Camera modules
- Diodes
- Prisms
- Mirrors
- VCSEL potting
- Optical mounting
- Attachment of ceramic, glass, quartz, metal, and plastic components where optical clarity is a requirement

Dymax UV Curable Optical Assembly Adhesives



Selector Guide

These are some of our most popular Dymax adhesives for lens bonding, fibre optics and other optical applications. We would be pleased to discuss additional adhesives which may meet your needs.

Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-24-REV-B DYM 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%	1.50	800	D80

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-29 DYM OP-29	Clear; UV light cure; doublet bonding, lens mounting, fibre optic splicing	0.79%	1.50	2,500	D60
Dymax OP-29-GEL DYM OP-29-GEL	Clear; UV light cure, doublet bonding, lens mounting, fibre optic splicing	0.79%	1.50	20,500	D65
Dymax OP-60 DYM OP-60	Light yellow; UV/Visible light cure, low shrinkage; low outgassing, low CTE	0.8%	N/A	150,000	D80

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-67-LS DYM OP-67-LS	White/opaque; UV/Visible light cure; low shrinkage; low outgassing for alignment stability; doublet bonding	0.08%	N/A	135,000	D80

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-4-20632 DYM OP-4-20632	Clear; tenacious adhesion to glass and metal; low shrink on cure; Tg increases with heat exposure; moisture resistant; resists yellowing	0.39%	1.55	480	D80

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-4-20632-GEL DYM OP-4-20632-GEL	Clear; tenacious adhesion to glass and metal; low shrink on cure; Tg increases with heat exposure; moisture resistant; resists yellowing	1.10%	1.54	57,500	D80

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax OP-81-LS DYM OP-81-LS	UV/visible light-curable optical adhesive epoxy with very low shrinkage during cure; low-temperature heat-curing function in applications where shadow areas exist or where heat cure only is preferred; recommended for substrates including polycarbonate, glass, acrylic and metal	1.5% Volumetric	N/A	60,000	D90

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax 9801 DYM 9801	White/opaque; UV/Visible light-curable adhesive with secondary low-temperature heat cure; low shrinkage; moisture and thermal cycle resistant; suitable for applications involving active alignment, optical and camera module assembly.	1.5% Volumetric	N/A	60,000	D90

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Product	Description	Linear Shrinkage	Refractive Index (cured)	Viscosity (cP)	Durometer Hardness
Dymax 9803 DYM 9803	Off white/opaque; UV/Visible light-curable adhesive with secondary low-temperature heat cure; low outgassing; for precision bonding of optical components, lenses and CCD chips.	1.1% Volumetric	N/A	86,000	D94

Please refer to individual product data sheets for curing suggestions, which you can [request from us](#).

Dymax UV Curable Optical Assembly Adhesives



Safety Data Sheets

For the latest SDS for this product, please e-mail msds@intertronics.co.uk

Ordering Information

Dymax UV Curable Optical Assembly Adhesives



01865

842842



orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

-
- Tell us about your application

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Supplied by:



INTERTRONICS
12a Station Field Industrial Estate, Banbury Road, Kidlington
Oxfordshire England OX5 1JD
t 01865 842842 e info@intertronics.co.uk

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