

**Manufacturer:**

Dymax

**Product Name:**

Dymax OP-60 High Viscosity Optical Adhesive, Opaque Light Yellow Paste, UV Cure - 30ml Syringe

**Manufacturer Part Number:**

OP-60-30ML

[Learn More](#)

▶ [Click here for more details on the Dymax OP-60 High Viscosity Optical Adhesive, Opaque Light Yellow Paste, UV Cure - 30ml Syringe](#)

**OP-60****Precision Positioning Optical Adhesive****APPLICATIONS**

- Optical Alignment Where Minimal or No Movement is Required

**FEATURES**

- High-Strength Positioning Adhesive
- Low Outgassing
- Low Shrinkage
- Low Moisture Absorption
- Opaque
- Heat-Cycle Stable
- Non-Movement During Cure or Thermal Excursions
- Complete Cure in Seconds

**RECOMMENDED SUBSTRATES**

- Glass
- Metal
- Ceramic
- FR-4
- Polycarbonate

Dymax OP-60 is a low-shrinkage, low-outgassing, low-CTE adhesive designed for the precise positioning of lenses, prisms, and other optical components. OP-60 cures by exposure to ultraviolet and/or visible cure light. Dymax high-performance optical adhesives cure upon exposure to UV or visible light in seconds. Because of their solvent-free and rapid-cure features, they increase productivity, lower assembly cost and enhance worker safety. When cured with Dymax spot, beam, or flood lamps, they deliver optimum speed and performance for a variety of optical applications. This product is in full compliance with RoHS directives 2015/863/EU.

**TYPICAL UNCURED PROPERTIES \***

Property	Value	Test Method
Solvent Content	None - 100% Solids	N/A
Appearance	Light Yellow Paste	N/A
Viscosity, cP (20 rpm)	150,000 (nominal)	ASTM D2556
Chemical Class	Acrylated Urethane	N/A
Soluble in	Organic Solvents	N/A
Density, g/ml	1.59	ASTM D1875
Shelf Life at Recommended Conditions from Date of Manufacture	18 months	N/A

**OTHER CURED PROPERTIES \***

Property	Value	Test Method
Total Weight Loss (TWL)	1.66%	ASTM E595
Volatile Condensable Material (CVCN)	0.10%	ASTM E595

**TYPICAL CURED PROPERTIES \***

Property	Value	Test Method
Linear Shrinkage During Cure	0.8%	ASTM D-2566
Durometer Hardness	D80	ASTM D-2240
Elongation at Break	2.4%	ASTM D-638
Tensile at Break	4,900 psi	ASTM D-638
Modulus of Elasticity	146,250 psi	ASTM D-638
Water Absorption (24 h)	2.8%	ASTM D-570
Coefficient of Thermal Expansion, CTE	58 X 10 <sup>-6</sup> in/in/°C (58 ppm)	ASTM D-696
Dielectric Strength	600 V/mil	ASTM D-149
Volume Resistivity	76.4 x 10 <sup>12</sup> ohm-cm	ASTM D-257
Dissipation Factor, 1 MHz	0.02	ASTM D-150
Dielectric Constant, 1 MHz	4.6	ASTM D-150

\* Not Specifications

N/A Not Applicable

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Technical Data Collected PRIOR TO 2003. Rev:02/19/2023



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23 Centre Street • New Bedford, MA 02740 USA

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FOC last update 12/15/2025.

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**OPTICAL ADHESIVES  
OP-60 Product Data Sheet****CURING GUIDELINES**

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm<sup>2</sup> [10 psi] between glass slides. Actual cure time typically is 3-to-5 times fixture time.

Dymax Curing System (Intensity)	Fixture Time or Belt Speed <sup>A</sup>
2000-EC (50 mW/cm <sup>2</sup> ) <sup>B</sup>	2 s
5000-EC (200 mW/cm <sup>2</sup> ) <sup>B</sup>	1 s
BlueWave® 200 (10 W/cm <sup>2</sup> ) <sup>B</sup>	1 s
UVCS Conveyor with Fusion F300S (2.5 W/cm <sup>2</sup> ) <sup>D</sup>	7.9 m/min [26 ft/min]

<sup>A</sup> Fixture times/belt speeds are typical for curing thin films through 100% UV and light-transmitting substrates. Light-obstructing substrates may require longer cure times.

<sup>B</sup> Intensity was measured over the UVA range (320-395 nm) using a Dymax ACCU-CAL™ 50 Radiometer.

<sup>D</sup> At 53 mm [2.1 in] focal distance. Maximum speed of conveyor is 8.2 m/min [27 ft/min]. Intensity was measured over the UVA range (320-395 nm) using the Dymax ACCU-CAL™ 6 Radiometer.

Full cure is best determined empirically by curing at different times and intensities, and measuring the corresponding change in cured properties such as tackiness, adhesion, hardness, etc. Full cure is defined as the point at which more light exposure no longer improves cured properties.

Dymax recommends that customers employ a safety factor by curing longer and/or at higher intensities than required for full cure.

**STORAGE AND SHELF LIFE**

Store material in a cool, dark place when not in use. Do not expose to UV light or sunlight. Material may polymerize upon prolonged exposure to ambient light. Replace lid immediately after use. This material shelf life noted on page 1 of this document, when stored between 10°C (50°F) and 32°C (90°F) in the original, unopened container.

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**OPTICAL ADHESIVES  
OP-60 Product Data Sheet****GENERAL INFORMATION**

This product is intended for industrial use only. Keep out of the reach of children. Avoid breathing vapors. Avoid contact with skin, eyes, and clothing. Wear impervious gloves. Repeated or continuous skin contact with uncured material may cause irritation. Remove material from skin with soap and water. Never use organic solvents to remove material from skin and eyes. For more information on the safe handling of this material, please refer to the Safety Data Sheet before use.

The data provided in this document are based on historical testing that Dymax performed under laboratory conditions as they existed at that time and are for informational purposes only. The data are neither specifications nor guarantees of future performance in a particular application. Dymax does not guarantee that this product's properties are suitable for the user's intended purpose.

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