



Manufacturer:

Dymax

Product Name:

Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe

Manufacturer Part Number:

OP-30-3ML

▶ [Click here for more details on the Dymax OP-30 Flexible Optical Adhesive, Hazy/Translucent, UV Cure - 3ml Syringe](#)



OP-30

Multi-Purpose, Light-Curable Optical Adhesive

APPLICATIONS	FEATURES	OTHER FEATURES
<ul style="list-style-type: none"> Encapsulation Lens Bonding Lamination Sensor Potting 	<ul style="list-style-type: none"> UV/Visible Light Cure Low Modulus Flexible High Ionic Purity High Elongation Complete Cure in Seconds 	<ul style="list-style-type: none"> Metal FR-4 ABS PA Resilient PVC

Dymax OP-30 is a flexible, "instant curing" UV/Visible light-curing encapsulant. It is designed to minimize strain and have good moisture and thermal cycle resistance and adhesion to various component substrates. Curing completely in as little as 5 seconds upon exposure to longwave UV and visible light, Dymax OP-30 shows high ionic purity for use in electric-optical applications properties. When cured with Dymax light-curing spot lamps, focused-beam lamps, or flood lamps, it delivers optimum speed and performance. Dymax lamps offer the optimum balance of UV and visible light for the fastest, deepest cures. This product is in full compliance with RoHS directives 2015/863/EU.

UNCURED PROPERTIES *		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Chemical Class	Acrylated Urethane	N/A
Appearance	Hazy / Translucent	N/A
Soluble in	Organic Solvents	N/A
Density, g/ml	1.06	ASTM D1875
Viscosity, cP	400 (nominal)	ASTM D1084

OTHER CURED PROPERTIES *		
Property	Value	Test Method
Refractive Index (20°C)	1.51	ASTM D542
Boiling Water Absorption, % (2 h)	2.7	ASTM D570
Water Absorption, % (25°C, 24 h)	1.1	ASTM D570
Linear Shrinkage, %	2.2	ASTM D2566

CURED MECHANICAL PROPERTIES *		
Property	Value	Test Method
Durometer Hardness	D45	ASTM D2240
Tensile at Break, MPa [psi]	8.9 [1,300]	ASTM D638
Elongation at Break, %	190	ASTM D638
Modulus of Elasticity, MPa [psi]	13.7 [2,000]	ASTM D638
Glass Transition Tg, °C	45	ASTM D5418

ADHESION	
Substrate	Recommendation
ABS (acrylonitrile-butadiene-styrene)	✓
PA (polyamide)	✓
PVC poly(vinyl chloride)	✓
SAN (styrene-acrylonitrile)	✓
TPU (thermoplastic polyurethane)	✓

✓ Recommended ◻ Limited Applications
 † Requires Surface Treatment (e.g. plasma, corona treatment, etc.)

* Not Specifications
 N/A Not Applicable
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 Technical Data Obsolete PRIOR TO 2008 Rev:02/16/04



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CURING GUIDELINES

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm² [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 ^A
2000-EC (50 mW/cm ²) ^B	3 s
5000-EC (200 mW/cm ²) ^B	2 s
BlueWave® 200 (10 W/cm ²) ^B	1.2 s
UVCS Conveyor with 5000-EC (200 mW/cm ²) ^D	7.9 m/min [26 ft/min]
UVCS Conveyor with Fusion F300S (2.5 W/cm ²) ^D	8.2 m/min [27 ft/min]

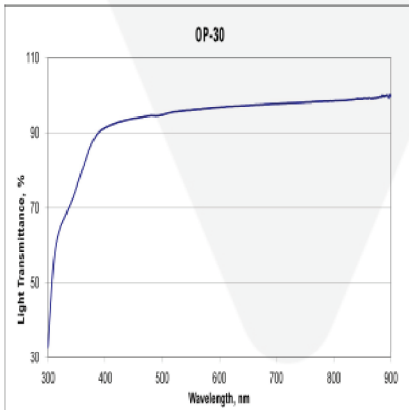
^A Fixture times/belt speeds are typical for curing thin films through 100% UV and light-transmitting substrates. Light-obstructing substrates may require longer cure times.
^B Intensity was measured over the UVA range (320-395 nm) using a Dymax ACCU-CAL™ 50 Radiometer.
^D At 53 mm [2.1 in] focal distance. 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™ 150 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.

LIGHT TRANSMISSION

** Measured at 0.03 mm [0.001in] per DSTM-501‡



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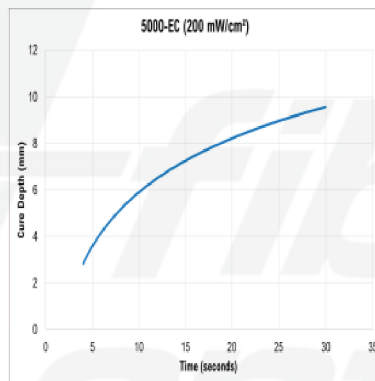
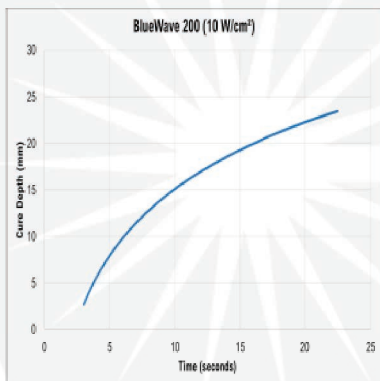
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DEPTH OF CURE

The graphs below show the increase in depth of cure as a function of exposure time with two different lamps at different intensities. A 9.5 mm [0.37 in] diameter specimen was cured in a polypropylene mold and cooled to room temperature. It was then released from the mold and the cure depth was measured.



OPTIMIZING PERFORMANCE AND HANDLING

1. This product cures with exposure to UV light. Exposure to ambient and artificial light should be kept to a minimum before curing. Dispensing components including needles and fluid lines should be 100% light blocking, not just UV blocking.
2. All surfaces in contact with the material should be clean and free from flux residue, grease, mold release, or other contaminants prior to dispensing the material.
3. Cure speed is dependent upon many variables, including lamp intensity, distance from the light source, required depth of cure, thickness, and percent light transmission of components between the material and light source.
4. Oxygen in the atmosphere may inhibit surface cure. Surfaces exposed to air may require high-intensity (>100 mW/cm²) UV light to produce a dry surface cure. Flooding the curing area with an inert gas, such as nitrogen, can also reduce the effects of oxygen inhibition.
5. Parts should be allowed to cool after cure before testing and subjecting to any loads or electrical testing.
6. In rare cases, stress cracking may occur in assembled parts. Three options may be explored to eliminate this problem. One option is to heat anneal the parts to remove molded-in stresses. A second option is to open any gap between mating parts to reduce stress caused by an interference fit. The third option is to minimize the amount of time the liquid material remains in contact with the substrate(s) prior to curing.
7. Light curing generally produces some heat. If necessary, cooling fans can be placed in the curing area to reduce the heating effect on components.
8. At the point of curing, an air exhaust system is recommended to dissipate any heat and vapors formed during the curing process.

STORAGE AND SHELF LIFE

Store the material in a cool, dark place when not in use. Do not expose to light. This product may polymerize upon prolonged exposure to ambient and artificial light. Keep covered when not in 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.

CLEAN UP

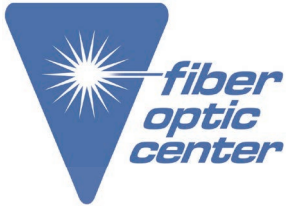
Uncured material may be removed from dispensing components and parts with organic solvents. Cured material will be impervious to many solvents and difficult to remove. Cleanup of cured material may require mechanical methods of removal.

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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.

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