



Manufacturer:

Dymax

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

► [Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe](#)



OPTICAL ADHESIVES
OP-29V Product Data Sheet

OP-29V
Multipurpose Optical Adhesive

Dymax high-performance optical adhesives cure upon exposure to light in seconds. OP-29V adhesive is sensitive to UV/Visible light. Because of its solvent-free and rapid-cure features, it increases productivity, lowers assembly cost, and enhances worker safety. When cured with Dymax spot, beam, or flood lamps, it delivers optimum speed and performance for a variety of optical applications. This product is in full compliance with RoHS directives 2015/863/EU.

SUBSTRATES BONDED: Glass • Metal • Plastics

FEATURES: Resilient • Optically Clear • Low Stress • Resists Yellowing, Thermal Shock, Vibration, and Impact

APPLICATIONS: Laminations • Tacking • Bonding • Potting • Sealing • Ideal for Large or Small Areas

TYPICAL UNCURED PROPERTIES (not specifications)

Solvent Content	None - 100% Solids	
Composition	Urethane (Meth) Acrylate	
Appearance	Clear	
Solubility	Isopropyl Alcohol/Chlorinated Solvents/Ketones	
Viscosity (20 rpm)	2,500 cP (nominal)	ASTM D-1084

TYPICAL CURED PROPERTIES (not specifications)

PHYSICAL		
Linear Shrinkage	2.8%	ASTM D-2566
Durometer Hardness	D60	ASTM D-2240
Elongation at Break	120%	ASTM D-638
Modulus of Elasticity	35,000 psi	ASTM D-638
Tensile at Break	3,000 psi	ASTM D-638
Tensile Compression Shear	Glass-to-Glass 2,300 psi (exceeds glass strength)	DSTM D-250*
	Glass-to-Steel 1,700 psi (exceeds glass strength)	DSTM D-251*
Boiling Water Absorption (2 h)	3.2%	ASTM D-570
Water Absorption (24 h)	1.2%	ASTM D-570

*DSTM refers to Dymax Standard Test Method

RECOMMENDED CURING SYSTEMS

Lamp	5000-EC	BlueWave® 200	UVC-6/Fusion F-300
Light Type	UV/Visible	UV/Visible	UV/Visible
Lamp Type	5" x 5" Flood	3/16" Spot	1" x 6" Focused Beam
Maximum Lamp Intensity @ 365 nm	300 mW/cm ²	20,000 mW/cm ²	8,000+ mW/cm ²
Intensity @ Time of Test @ 365 nm	150 mW/cm ²	3,750 mW/cm ²	4,000 mW/cm ²
Adhesive Absorption Range (nm)	300-500	300-500	300-500
Equipment Output Range (nm)	300-500	300-500	300-500
Cure Speed (Sec)			
Fixture Between Glass Slides	2	4	<1
Tack-Free Surface Cure	7	5	<1
Nominal Cure Depth (0.125")	1	5	1
Cure Depth In 1 Minute (inch)	0.75	0.75	1.0

The required intensity and cure time should be determined during the initial process validation stage. Factors that should be considered during process validation which can affect the adhesive cure rate and depth of cure include, but are not limited to, the part geometry, bond-gap size, percent light transmission through the substrate at 365 nm and 436 nm, distance from the light source to the adhesive bond area, UV and visible light intensity and spectral output of the light source, the desired margin of safety to be built into the process, and minimum and maximum exposure times.



© 2008-2012 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by Dymax Corporation, U.S.A.

Technical data provided is of a general nature and is based on laboratory test conditions. Dymax does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax standard Conditions of Sale. Dymax does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this communication shall act as a representation that the product use or application will not infringe on a patent owned by someone other than Dymax or act as a grant of license under any Dymax Corporation Patent. Dymax recommends that each user adequately test its proposed use and application before actual repetitive use, using the data in this communication as a general guideline.

Technical Data Collection Prior to 2008

REV. 12/27/2018

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are
subject to change without notice.
FOC last update 12/12/2025.



Manufacturer:

Dymax

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

► [Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe](#)



OPTICAL ADHESIVES
OP-29V Product Data Sheet

OPTICAL PROPERTIES

Refractive Index (25°C) Uncured

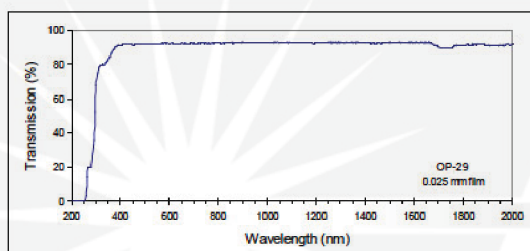
1.477

ASTM D-1218

Refractive Index (25°C) Cured

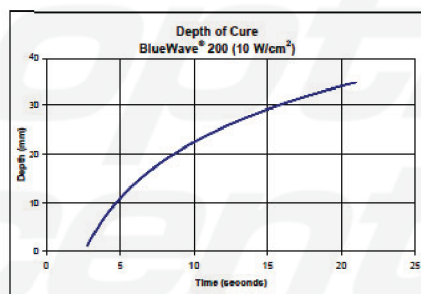
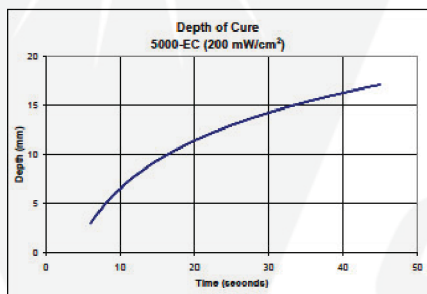
1.504

ASTM D-1218



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.



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 has an 18-month shelf life from date of manufacture, unless otherwise specified, when stored between 10°C (50°F) and 35°C (90°F) in the original, unopened container.

DISPENSING AND HANDLING ADHESIVES

This material may be dispensed with a variety of manual and automatic applicators or other equipment as required.

SAFETY

Wear impervious gloves and/or barrier cream. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. Do not wear absorbent gloves. Remove adhesive from skin with soap and water. Never use solvents to remove adhesive from skin or eyes.

CAUTION

For industrial use only. Avoid breathing vapors. Avoid contact with eyes and clothing. In case of contact, immediately flush with water for at least 15 minutes; get medical attention. Wash clothing before reuse. Keep out of reach of children. Do not take internally. If swallowed, induce vomiting at once and call a physician. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. For specific information, refer to the product's Material Safety Data Sheet.

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are
subject to change without notice.
FOC last update 12/12/2025.

[Learn More](#)**Manufacturer:**

Dymax

Product Name:

Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe

Manufacturer Part Number:

OP-29V-30ML

► [Click here for more details on the Dymax OP-29V Optical Adhesive, Optically Clear, UV Cure - 30ml Syringe](#)

**OPTICAL ADHESIVES**
OP-29V 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.

Numerous factors—including, without limitation, transport, storage, processing, the material with which the product is used, and the ultimate function or purpose for which the product was obtained—may affect the product's performance and/or may cause the product's actual behavior to deviate from its behavior in the laboratory. None of these factors are within Dymax's control. Conclusions about the behavior of the product under the user's particular conditions, and the product's suitability for a specific purpose, cannot be drawn from the information contained in this document.

It is the user's responsibility to determine (i) whether a product is suitable for the user's particular purpose or application and (ii) whether it is compatible with the user's intended manufacturing process, equipment, and methods. Under no circumstances will Dymax be liable for determining such suitability or compatibility. Before the user sells any item that incorporates Dymax's product, the user shall adequately and repetitively test the item in accordance with the user's procedures and protocols. Unless specifically agreed to in writing, Dymax will have no involvement in, and shall under no circumstances be liable for, such testing.

Dymax makes no warranties, whether express or implied, concerning the merchantability of this product or its fitness for a particular purpose. Nothing in this document should be interpreted as a warranty of any kind. Under no circumstances will Dymax be liable for any injury, loss, expense or incidental or consequential damage of any kind allegedly arising in connection with the user's handling, processing, or use of the product. It is the user's responsibility to adopt appropriate precautions and safeguards to protect persons and property from any risk arising from such handling, processing, or use.

Except as otherwise noted, all trademarks used herein are trademarks of Dymax. The "®" symbol denotes a trademark that is registered in the U.S. Patent and Trademark Office.

The contents of this document are subject to change. Unless specifically agreed to in writing, Dymax shall have no obligation to notify the user about any change to its content.

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are
subject to change without notice.
FOC last update 12/12/2025.