

Description

Dymax LED UV light curing adhesives, coatings and temporary masking products are optimised for use with [LED UV curing lamps](#). UV curing lamps manufactured with LEDs can offer [significant advantages](#) over conventional UV lamp curing systems, including cooler curing temperatures, lower intensity degradation over time, more consistent cure results, lower energy consumption, and reduced costs. However, LED-based UV curing lamps provide specific narrow bandwidth UV light, which is not always optimal for adhesives which have been designed to react to broad spectrum UV lamps.

These adhesives have been **specially formulated or tested to cure with LED UV curing lamps**. They range from fast to ultra-fast cure speeds in order to accommodate specific medical device, electronic, and industrial assembly needs.

Features & Benefits

- Co-optimised with Dymax LED UV curing equipment
- Adhesive bonding to flexible and rigid substrates – plastics, metal, ceramic, glass
- Fast to ultra-fast cure speeds
- Production-proven technology
- [See-Cure](#) versions provide confirmation of correct application and cure
- Fluorescing formulations to aid inspection
- Solvent-free

Dymax LED UV Light Curing Adhesives



■ RoHS compliant

Medical Devices

Adhesives for medical device assembly.

Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 204-CTH-F DYM 204-CTH-F	Clear; fluorescing; catheter and plastic bonding	0.2 sec	PVC, PC, PU, ABS, PET	500 cPs	D55
Dymax 209-CTH DYM 209-CTH	Clear; fluorescing; catheter bonder; bonds plastic and metals	0.4 sec	ABS, SS, PC, PVC, Glass, PMMA, PA	300 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 210-CTH DYM 210-CTH	Clear; catheter bonder; bonds a wide variety of plastics; moisture resistant	0.2 sec	PC, PU, PS, PA, ABS, PVC	150 cPs	D65
Dymax 211-CTH-SC DYM 211-CTH	See-Cure version; catheter bonder; bonds a wide variety of plastics; ideal for >1 W/cm ² ; ideal for 4-8 mil gaps	0.2 sec	PC, PU, PS, SS, ABS, CAP, PA, PVC, SAN, TPU, FR-4	450 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 212-CTH-UR-SC DYM 212-CTH-UR-SC	Catheter bonder; formulated with Encompass [®] technology; red fluorescing; blue-to-colourless colour change upon cure	0.2 sec	ABS, CAP, PA, PC, PS, PU, PVC, PL, SS	10,000 cPs	D62

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
<p>Dymax 215-CTH-UR-SC DYM 215-CTH-UR-SC</p>	<p>Catheter bonder; formulated with Encompass[®] technology; red fluorescing; blue-to-colourless colour change upon cure</p>	<p>0.2 sec</p>	<p>ABS, PA, PC, PCTG, PEBA, PEI, PET, PETG, PI, PMMA, PS, PSU, PU, PVC, SAN, TPU, AL</p>	<p>20,000 cPs</p>	<p>D53</p>

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1120-M-UR DYM 1120-M-UR	Fast & tack-free cures; adhesion to wide variety of plastics; moisture resistant; Ultra-Red [®] fluorescing	0.2 sec	Plastics	300 cPs	D70
Dymax 1128A-M DYM 1128A	Fluorescing; secondary heat cure; impact resistant	<3 sec	SS, AL, NiTi, Glass, ABS, PA, PU	600 cPs	D80
Dymax 1162-M DYM 1162-M	Clear; fluorescing; lower viscosity; fluorescing needle bonder	0.2 sec	ABS, SS, PC, PVC, Glass	200 cPs	D75

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1165-M DYM 1165-M	Clear; fluorescing; flexible PVC bonder	0.2 sec	PVC, PC, PU, ABS, EVA	10,000 cPs	A55
Dymax 1168-M DYM 1168-M	Flexible; low shrinkage; moisture resistant; fluorescing	0.2 sec	PC, PA, PMMA, PU, PVC, SS	300 cPs	D55
Dymax 1180-M DYM 1180-M	Clear; fluorescing; multipurpose adhesive for plastics and metals	0.2 sec	PC, PVC, PU, ABS, SS	150 cPs	D70
Dymax 1187-M DYM 1187-M	Clear; fluorescing; general plastic bonder	0.2 sec	PVC, PC, PU, ABS, PET	450 cPs	D55

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1201-M-SC DYM 1201-M-SC	See-Cure version; general purpose plastic bonder	0.2 sec	PC, PVC, PU, ABS, PET	600 cPs	D60
Dymax 1401-M-UR DYM 1401-M-UR	LED light cure 385 nm or 405 nm; Ultra-Red [®] fluorescing; tack-free cure; medium viscosity; needle bonder	0.2 sec	SS, PU, PC, PS, ABS, Glass, PA, PMMA, PP	2,800 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
<p>Dymax 1402-M DYM 1402-M</p>	<p>LED light cure 385 nm or 405 nm; blue fluorescing; low viscosity for improved wetting; resists yellowing; fast cure; needle bonder</p>	<p><0.4 sec</p>	<p>SS, PC, PU, PS, ABS, PA, PMMA, PP</p>	<p>150 cPs</p>	<p>D70</p>

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1403-M DYM 1403-M	LED light cure 385 nm or 405 nm; blue fluorescing; low viscosity for easy dispense; moisture resistant; tack-free cure; needle bonder	<0.4 sec	SS, PU, PC, PS, ABS, PA, PMMA, PP	450 cPs	D57
Dymax 1404-M-UR DYM 1404-M-UR	LED light cure 385 nm or 405 nm; Ultra- Red fluorescing; higher viscosity; low wicking; needle bonder	0.2 sec	SS, PU, PC, PS, ABS, PA, PMMA, PP	6,000 cPs	D65

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1405M-T-UR-SC DYM 1405M-T-UR-SC	Curable at 385nm and 405nm; formulated with Encompass [®] technology; red fluorescing; blue-to-colourless colour change upon cure; needle bonder	3 sec	ABS, PC, PCTG, PEI, PETG, PMMA, PS, PSU, PU, PVC, SAN, TPU, SS	7,000 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 1901-M DYM 1901-M	Secondary heat cure; flame retardant; repairable; solvent free; suitable for both flexible and rigid substrates	0.1 sec	CAP, PS, TPU, AL, CER, FR-4, GL	3,000 cPs	A67

Adhesives and coatings for electronics assembly.

Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
----------	----------	---------------------	----------------	-----------	----------

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 9-20557 DYM 9-20557	Flexible conformal coating with secondary heat cure; fluorescing	3 sec	Ceramic, Leadframe, PCB, Flex, Silicon	2,300 cPs	D60
Dymax 9-20557-LV DYM 9-20557-LV	Flexible conformal coating with secondary heat cure; fluorescing	<4 sec	Ceramic, Leadframe, PCB, Flex, Silicon	850 cPs	D70
Dymax 9-911-REV-A DYM 9-911-REV-A	Solvent resistant wire-tacking adhesive with secondary heat cure; fluorescing	1 sec	Ceramic, Leadframe, PCB, Flex, Silicon	36,000 cPs	D80

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 984-LVUF DYM 984-LVUF	Chemically resistant conformal coating with secondary heat cure; fluorescing	0.2 sec	Ceramic, Leadframe, PCB, Flex, Silicon	150 cPs	D80
Dymax 9481-E DYM 9481-E	Secondary moisture cure; blue fluorescing; chemically resistant; solvent free; low odour conformal coating	N/A	CER, Leadframe, PSB, SI	125 cPs	D75

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 9482 DYM 9482	Secondary moisture cure; blue fluorescing; chemically resistant; thermal shock resistant; superior workability; low VOC conformal coating	N/A	CER, Flex, Leadframe DYM, PSB, SI	1,100 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 9001-E-v3.0 DYM 9001-E-v3.0	Resilient, clear encapsulant; excellent thermal cycling adhesive for potting	1 sec	Ceramic, Leadframe, PCB, Flex, Silicon	400 cPs	D45
Dymax 9001-E-v3.1 DYM 9001-E-v3.1	Resilient, clear encapsulant; excellent thermal cycling adhesive for potting	<1.5 sec	Ceramic, Leadframe, PCB, Flex, Silicon	4,500 cPs	D45

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 9001-E-v3.5 DYM 9001-E-v3.5	Resilient, clear encapsulant; excellent thermal cycling adhesive for potting	<2 sec	Ceramic, Leadframe, PCB, Flex, Silicon	17,000 cPs	D45
Dymax 9422-SC DYM 9422-SC	See-Cure version; highly thixotropic ruggedizing adhesive; reduces stress on board components	0.2 sec	Ceramic, Leadframe, PCB, Flex, Silicon	38,000 cPs	D50

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 9422-T-SC DYM 9422-T-SC	See-Cure version; highly thixotropic ruggedizing adhesive; reduces stress on board components	0.2 sec	Ceramic, Leadframe, PCB, Flex, Silicon	8,000 cPs	D50

Industrial Assembly

Adhesives for industrial assembly.

Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
----------	----------	---------------------	----------------	-----------	----------

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 3030 DYM 3030	Ultra-fast cure; clear; plastic bonder	<2 sec	ABS, PC, PVC, SAN, FR4	300 cPs	D65
Dymax 3031 DYM 3031	Clear; high adhesion to plastics	<2 sec	ABS, PC, PVC, SAN, FR4	125 cPs	D65
Dymax 3069-GEL DYM 3069	Flexible; adhesion to a wide variety of plastics	<2 sec	PC, PVC, PET, PETG, PU, ABS	25,000 cPs	D55
Dymax 3094 DYM 3094	Rapid cure; flexible; adhesion to a wide variety of plastics	0.2 sec	ABS, PA, PC, PC/PCTG, PCTG, PET, PETG, PI, PMMA, PS, PSU, PU, PVC, SAN, TPU, GL, SS	1,000 cPs	D62

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 3130-UR DYM 3130-UR	Ultra-fast cure; moisture resistant; Ultra-Red [®] fluorescing	<2 sec	ABS, CAP, PC, PVC, SAN	300 cPs	D70
Dymax 3227-SC DYM 3227-SC	See-Cure version; low viscosity PVC and PET bonder	<2 sec	PVC, PET, ABS, PU	110 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 3401 DYM 3401	Light/moisture-cure PC and ABS plastic bonder; blue fluorescing; shadowed area performance; moisture and thermal resistance	0.1 sec	PC, ABS	150 cPs	D55-D75

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 429 DYM 429	Flexible for shock absorption and vibration resistance; fast UV light cure; resists yellowing; clear; ideal for large area bonding	<5 sec	Glass, Metal, ABS, PVC	2,500 cPs	D60
Dymax 431 DYM 431	Clear; high-temperature and moisture-resistant; high adhesion to glass, metals, and many plastics	<3 sec	Glass, AL, SS, CU, Ceramic, FR4, BR, and many plastics	500 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 431-T DYM 431-T	High temperature resistant; moisture resistant; high adhesion to glass and metal	3.8 sec	PA, PC, PET, PMMA, PS, PU, AL, CER, CU, GL, SS	6,000 cPs	D70
Dymax 6-621 DYM 6-621	Secondary heat or activator cure; forms hard, clear bonds to multiple substrates	<1 sec	Metals, Glass, Ceramic, Polyamide (filled/unfilled), Phenolic Plastics	800 cPs	D80
Dymax 6-625-SV01-REV-A DYM 6-625-SV01-REV-A	Clear; flexible; secondary heat or activator cure	<3 sec	Glass, Metals, Ceramic, Thermoset Plastics	10,000 cPs	D50

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 6-630 DYM 6-630	High adhesion to glass and metal; clear bonds; secondary heat cure; activator cure; flexible; high-temperature and moisture resistant		ABS, PI, PS, PVC, AL, CER, GL, SS	500 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 6-630 DYM 6-630	High adhesion to glass and metal; clear bonds; secondary heat cure; activator cure; flexible; high-temperature and moisture resistant		ABS, PEEK, PEI, PSU, PVC, AL, GL, SS	6,000 cPs	D70

Dymax LED UV Light Curing Adhesives



Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 500-E-REV-A DYM 500-E-REV-A	Activator, cures Dymax Multi-Cure® adhesives (600 and 800 series adhesives) in areas not able to see light or heat, suitable for gaps <0.001 to 0.020, strong structural bonds, fixtures in seconds, solvent-free		plastics, glass metals, ferrite bonding, magnet bonding, motor assembly, metals, ceramic, glass, plated surfaces	25 cPs	

Dymax LED UV Light Curing Adhesives

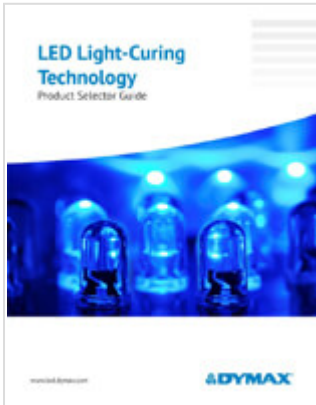


Adhesive	Features	Tack-Free Cure Time	Key Substrates	Viscosity	Hardness
Dymax 501-E-REV-A DYM 501-E-REV-A	Activator, cures Dymax Multi-Cure® adhesives (600 and 800 series adhesives) in areas not able to see light or heat, suitable for gaps <0.001 to 0.020, strong structural bonds, fixtures in seconds, solvent-free		plastics, glass metals, ferrite bonding, magnet bonding, motor assembly, metals, ceramic, glass, plated surfaces	35 cPs	

Dymax LED UV Light Curing Adhesives



Other Information



[Download the Dymax LED Adhesives Selector Guide](#)

Adhesives, coatings and temporary masking products – proven bonding performance on rigid and flexible substrates, with formulations optimised for the needs of industries from medical devices and electronics to industrial assembly

Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

Last updated: February 2018 Version: 5.2

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.