

Dymax UV & Visible Light Curing Plastic, Glass and Metal Bonding Adhesives



Description

Dymax UV Light Curing adhesives for plastic, metal and glass bonding cure in seconds upon exposure to ultraviolet light and/or visible light, even through UV blocked plastics. A solvent-free, worker-friendly plastic adhesive forms high-strength, environmentally resistant bonds to plastics and other substrates, including polycarbonate, PVC, phenolic, acrylic (PMMA), metal, glass and ceramic. Because plastic adhesives bond so many different substrates, they are exceptional adhesives for bonding dissimilar materials, something that cannot be done with traditional welding methods and other types of adhesives. Typical UV plastic adhesive applications include display case construction, automotive headlamp assembly, novelty bonding, sign assembly, adhering light fixtures and awards and plastic package assembly.

“It became clear at an early stage that a UV and visible light cure adhesive was the only way to do the job. It would give us the opportunity to apply, assemble and inspect at our leisure so we could ensure full coverage and no bubbles. We were able to then wipe off any excess after adjustment and light cure in seconds so we could move on to assemble the next block almost instantly and with full confidence in the integrity of the work we were building up.” – Alex Abbott, Dauphin Restoration Ltd

Please see our page dedicated to [Dymax UV light curing adhesives for glass bonding](#).

Features & Benefits

- Bond in seconds

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- Cures with UV and/or visible light
- Suitable for a variety of plastic, metal and glass substrates
- Suitable for bonding dissimilar substrates together
- Blue and red fluorescing formulations for improved inspection and quality control
- **See-Cure** versions provide confirmation of correct application and cure
- Solvent free
- Environmentally friendly

Adhesive	Applications	Adhesive features
<i>Most popular products</i>		
Dymax 3013 DYM 3013	Bonding transparent or translucent acrylic, metal, polycarbonate, PVC alloys, ABS, polyurethane and polystyrene	Resilient; general purpose; low viscosity; moisture resistant; flexible; dispenses easily and cures quickly for precise quantity and placement of adhesive; built-in fluorescence provides a method to insure in-line quality control utilizing optical scanners

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Adhesive	Applications	Adhesive features
Dymax 3069 DYM 3069	Electrical bonding; potting; wire harness assembly; bonds to polycarbonate, PVC, polyurethane, PET	Low stress; clear; environmentally resistant; adheres to most surfaces; good for flexible and rigid substrates
Dymax 3099 DYM 3099	Bonding clear and translucent acrylic, PMMA, polycarbonate, PVC alloys, and polyurethane. Bonding point-of-sale plastics	Resilient adhesive with excellent adhesion to acrylic (PMMA). Clear, low viscosity UV cured adhesive produces clear, bubble-free bond lines. Can be cured with LED curing lamps.
Dymax 6-621 DYM 6-621 Dymax 6-621-GEL DYM 6-621-GEL	Glass/metal bonding to phenolic and filled plastics	High tensile strength; suited for rigid adhesive applications; clear, hard bonds; cures with UV light or heat

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Adhesive	Applications	Adhesive features
Dymax 500-E-REV-A DYM 500-E-REV-A	Suitable for gaps <0.001 to 0.020, suitable for plastics, glass metals, ferrite bonding, magnet bonding and motor assembly	Cure of Dymax Multi-Cure® adhesives (600 and 800 series adhesives) in areas not able to see light or heat, strong structural bonds, fixtures in seconds, solvent-free
Dymax 501-E-REV-A DYM 501-E-REV-A	Suitable for gaps <0.001 to 0.020, suitable for plastics, glass metals, ferrite bonding, magnet bonding and motor assembly	Cure of Dymax Multi-Cure® adhesives (600 and 800 series adhesives) in areas not able to see light or heat, strong structural bonds, fixtures in seconds, solvent-free
<i>See-Cure Adhesive Technology</i>		
Dymax 3225-T-SC DYM 3225-T-SC	Appliance assembly; plastics assembly; plastics lamination; metal-to-plastic bonding	See-Cure adhesives appear blue when dispensed and become clear when fully cured. This allows users to know where the adhesive has been applied, as well as if the adhesive is fully cured; flexible; multi-substrate adhesion

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Adhesive	Applications	Adhesive features
<p>Dymax 3220-SC DYM 3220-SC Dymax 3220-GEL-SC DYM 3220-GEL-SC</p>	<p>Bonding and laminating plastics including PVC, PC, ABS, PET, PEBA, and PU</p>	<p>See-Cure adhesives appear blue when dispensed and become clear when fully cured. This allows users to know where the adhesive has been applied, as well as if the adhesive is fully cured; flexible</p>
<p>Dymax 3221-SC DYM 3221-SC</p>	<p>Bonding and laminating plastics including PMMA, PVC, PC, PU, PA, PET, and ABS</p>	<p>See-Cure adhesives appear blue when dispensed and become clear when fully cured. This allows users to know where the adhesive has been applied, as well as if the adhesive is fully cured; flexible; multi-substrate adhesion</p>
<p><i>Other plastic bonders</i></p>		

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<p>Dymax 3401 DYM 3401</p>	<p>Plastic bonder with secondary moisture cure – designed for rapid bonding of a wide variety of plastic and metal substrates and is ideally suited for PC and ABS bonding applications</p>	<p>Superior bond strength and formulated with a UV/Visible light and secondary ambient moisture-cure system for curing in shadow areas. Moisture and thermal resistant, low shrinkage, fluoresces blue under low-intensity black light” for easy in-line inspection. Can be cured with LED curing lamps.”</p>
<p>Dymax 3113-UR DYM 3113-UR</p>	<p>Bonding and sealing, plastic window bonding, appliance and plastics assembly</p>	<p>Ultra-Red fluorescing; resilient; general purpose; moisture resistant; adhesion to a wide variety of substrates and plastics</p>
<p>Dymax 3130-UR DYM 3130-UR</p>	<p>Appliance bonding and assembly, plastic housings, displays</p>	<p>Very fast curing plastic bonder; moisture resistant; can be cured with LED curing lamps; Ultra-Red fluorescing</p>

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Dymax 3169-UR DYM 3169-UR	Flexible lamination, plastic housing assembly and bonding, loud speaker assembly	Ultra-Red fluorescing; flexibility for laminating and plastics bonding; adhesion to a wide range of plastics and substrates
Dymax 3030 DYM 3030	Plastic housing assemblies; appliance, auto and aerospace assemblies	Ultra fast-cure for wide variety of plastic substrates; formulated for fast on-demand cure with LED curing lamps.
Dymax 3031 DYM 3031	Plastic housing assemblies; appliance, auto and aerospace assemblies	High adhesion; designed for rapid bonding of a wide range of plastic substrates; formulated for fast on-demand cure with LED curing lamps.

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Dymax 3072 DYM 3072	Electrical potting and sealing; bonds to PBT, Valox®, metal, glass, PVC, SAN, PS and K-Resin®	UV and/or visible light curing; dispenses easily to allow for precise quantity and placement of adhesive; bonds generally exceed the strength of substrates bonded, including PVC alloys, which resist most other bonding methods. Can be cured with LED curing lamps.
Dymax 3081 DYM 3081	Sealing PVC clamshell packages	Strong bonds to thermoformed PVC
Dymax 3083 DYM 3083	Sealing PET & R-PET clamshell packages	Strong bonds to thermoformed PET and R-PET
Dymax 3086 DYM 3086	Packaging; bonds to SAN, ABS, CAP, MBS, acrylic, glass, ceramic and metal	Very fast; structural strength adhesive; hard, rigid bonds; UL94 V-0 flame class rating

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Adhesive	Applications	Adhesive features
Dymax 3094 DYM 3094	Bonding display cases, shelves; laminating plastic sheets; packaging; bonds to acrylic, ABS, styrene, polycarbonate, polyurethane	UV light and/or visible light curing; dispenses easily and cures quickly for precise quantity and placement of adhesive; bonds generally exceed the strength of substrates bonded, including PVC alloys, which resist most other bonding methods

Substrates

Download the full [Dymax industrial adhesives selector guide](#) to determine which adhesive(s) is compatible with your substrates, or [contact us for advice](#).

Substrate	Chemical name	Registered Trademark
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Substrate	Chemical name	Registered Trademark
ABS	Acrylonitrile-butadiene-styrene	Lustran ®, Terluran ®, Cycalloy ®
FR4	Epoxy Fibreglass	
LDPE	Low-Density Polythene	
PA	Polyamide	Nylon*
PBT	Poly (butylene terephthalate)	Valox*
PC	Polycarbonate	Makrolon ®, Lexan®, Apec®, Calibre®
PEI	Polytherimide	Ultem®
PES	Polyester Sulfone	Ultrason®, Udel®
PETG®	Copolyester	Easter®
PI	Polyimide	Kapton®
PMMA	Poly (Methyl Methacrylate)	Acrylic, Plexiglass®, Perspex®, Cryolite®

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Substrate	Chemical name	Registered Trademark
PP	Polypropylene	
POP	Poly (Phenylene Oxide)	Noryl®
PPS	Poly (Phenylene Sulfide)	Ryton®
PS	Polystyrene	Novacor®, Styron®
PSU	Polysulfone	Ultrason®
PUR	Polyurethane	
PVC	Polyvinyl Chloride	
SAN	Styrene-acrylonitrile	Lustran®
Al	Aluminium	
CU	Copper	





® Registered trademarks and trademarks acknowledged.

Other Information

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See how **Dymax 6-621**, **Dymax 3099** and **Dymax 3225-T-SC** work as part of real applications in these UV curing adhesives [Case Studies](#):

<p>CASE STUDY</p> <p>intertronics adhesives, coatings, sealants & equipment for your manufacturing and technology applications</p> <p>Dymax Multi-Cure 6-621 UV light curing adhesive</p> <p>Dymax BlueWave 75 UV curing spot lamp</p>  	<p>Fast curing metal bonding solution for Ford Components</p> <p>A machining and component manufacturing application to bond metal parts efficiently with a minimal bond line on a production scale level.</p>
<p>CASE STUDY</p> <p>intertronics adhesives, coatings, sealants & equipment for your manufacturing and technology applications</p> <p>Dymax Ultra Light-Weld 3099 UV/Visible Light Curing Adhesive</p> <p>IUV250 UV Curing Flood Lamp</p>  	<p>Acrylic bonding – when it absolutely must look right</p> <p>A UV adhesive and curing application that required a quick, clear and clean finish.</p>

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<p>CASE STUDY</p> <p>intertronics adhesives, coatings, sealants & equipment for your manufacturing and technology applications</p> <p>Dymax 3225-T-SC See-Cure technology UV curing adhesive</p>  <p>Quasar® eLite operating theatre lamp</p> 	<p>UV adhesive cures time problem for Brandon Medical Ltd</p> <p>Timing of production processes have been reduced and the opportunity for better quality control measures are aided by Dymax See-Cure technology.</p>
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Ordering Information

Find out more information on [how to purchase](#).

Our technical team are on hand to discuss your application requirements, [click here](#) to get in touch.

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