



Optimax[®] UV Light Curing Adhesives

Military, Defence and Aerospace
applications worldwide.



High performance manufacturing adhesives

CUSTOM FORMULATING

We are industry leaders in providing design engineering and technical support. We develop customised formulations to meet your specific application requirements. Our technical group will work closely with you to identify criteria for resin systems that will meet your production needs and final product specifications. Our expertise extends to epoxies, urethanes, and multi-functional light curing systems. Below is a list of our front-line grades.

Optimax® Adhesive Systems

Our structural adhesives are formulated to withstand severe impact, peel forces and offer excellent chemical and temperature resistance. They improve product performance, aesthetics, reduce assembly time and lower cost.

We have the technical capacity to provide you with custom designed bonding products.

Optimax® Opto-electronic, Photonic and Electrically Conductive Systems

We have developed technology for the manufacturing application solutions required for light emitting diodes (LED), optical displays, image sensors, opto couplers, detectors, and infrared devices. We offer a complete line of adhesives and sealant systems suitable for the continuing technological development in display manufacturing.

Optimax®	Description	Substrates	Viscosity cps	Shore Hardness
Glass Bonding				
3116	Low viscosity, structural UV adhesive. Suitable for a wide range of applications.	Glass / Metal / Plastics	100	70D
3806	Low viscosity, fast curing, structural UV adhesive. Provides tough impact resistant adhesion to both flexible and rigid substrates.	Glass / Metal / Plastics	450	45D
3127	Medium viscosity, rigid, structural UV adhesive. Very high strength glass to metal adhesive.	Glass / Metal	900	60D
3088	High viscosity, fast curing structural UV adhesive. Multiple manufacturing applications. Very high strength. Provides tough impact resistance.	Glass / Metal / Plastics	2000	75D
3111	High viscosity, fast curing structural UV adhesive. Rigid bonding applications. Wide range of manufacturing applications.	Glass / Metal	6000	72D
3509	Very high viscosity, fast curing, flexible structural UV adhesive. Provides tough impact resistance. Multiple manufacturing applications.	Glass / Metal / Plastics	16,000	45A
Plastic Bonding				
5311	Low viscosity, structural UV adhesive for multiple manufacturing applications.	Plastics / Metals	180	72D
5806	Low viscosity. Flexible. Use for applications where shock and impact resistant properties are required.	Plastics / Metals / Glass	500	50D
5088	Medium viscosity, rigid structural UV adhesive. Ultimate high strength. High resistance properties.	Plastics / Metals / Glass	1800	74D
5326	High viscosity, flexible, structural UV adhesive. Multiple manufacturing applications.	Plastics / Glass	5900	55D
5509	Ultimate flexibility. Ultimate high strength. All purpose manufacturing adhesive.	Plastics / Metals / Glass	14,900	50A
Potting & Encapsulation				
8003	Low viscosity UV resin for potting, encapsulation and coating applications. Optically clear and tack free.	Multiple	100	85D
8004	High viscosity UV resin for potting, encapsulation and coating applications. Optically clear and tack free.	Multiple	3000	85D



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Optimax® UV Adhesives – Front Line Grade Range

Optimax® Engineered High Performance Adhesives

We offer a range of products designed to meet high performance requirements in aerospace and electronic applications. Our systems protect your assemblies from the degrading, environmental and operating effects of chemical exposure, moisture, thermal cycle and shock, current leakage and vibration.

Optimax® UV/Light cure products

We pioneered the use of light curing adhesives, masks, potting compounds and coatings for the industrial, medical, and electronics industries. Optimax® systems cure in seconds upon exposure to UV/visible light, and offer superior adhesion and performance to a variety of substrates.

Optimax®	Description	Viscosity	Shore Hardness
Military Specified			
951509	Meets MIL-spec 810G. Suitable for bonding all types of plastics, glass and metal based substrates. Ultimate bond strength. Highly flexible.	17,200	45A
UV Acrylic's			
8067	New Technology. Excellent chemical and environmental resistance properties. High performance manufacturing UV adhesive.	60	40D
8968	Medium viscosity UV adhesive formulated to give ultimate flexibility and strength. Excellent chemical and environmental resistance properties. Suitable for multiple manufacturing applications on a wide range of substrates.	4,000	45D
8167	New Technology. Excellent chemical and environmental resistance properties. High performance manufacturing UV adhesive.	22,500	40D
8967	Gel formulation. UV high viscosity adhesive formulated to give ultimate strength and flexibility. Excellent chemical and environmental resistance properties. Suitable for multiple manufacturing applications on a wide range of substrates.	125,000	40D
Wire Tacking			
6509	Formulated to reduce surface tack caused by oxygen inhibition. The product can be used for wire tacking on PCB's as well as ruggedisation of board components.	15,800	48A
Cationic / Dual Cure			
6439	Multicure, UV, heat, activator. Suitable for applications where light transmittance is difficult.	1450	74D
6440	Multicure, UV, activator. Suitable where light transmittance is difficult. Low shrinkage. Shadow cure applications.	5000	77D
UV Cured Epoxy Resins			
8046-LV	Optimax® 8046-LV is a fast curing, high viscosity, UV curable epoxy adhesive designed for bonding a wide variety of substrates including engineering plastics, glass, acrylic and ceramics. Optimax® 8046-LV bonds in seconds under UV light and provides tough impact resistant adhesion to both flexible and rigid substrates.	500	83D
Optical Adhesives			
6435	Low shrinkage Optical Adhesive. High performance manufacturing optical adhesive. Suitable for use in a wide range of optical manufacturing applications.	1250	75D
6450	Excellent strength. Low outgassing for alignment stability. Suitable for a wide range of optical applications.	11,000	75D



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NovaChem

Innovative Adhesive Formulations

*Innovative formulations based
on proven chemistries.*



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