

Cynergy Zero Technical Data Sheet CA5011

08/03/2018

 N109 W13300 ELLSWORTH DRIVE GERMANTOWN, WI 53022
 262-253-5900 FAX 262-253-5919

DESCRIPTION:

ResinLab[®] CA5011 is a one part, low viscosity, odorless moisture cure cyanoacrylate. It has been formulated to have low blooming, non irritating and non staining characteristics. This product can be used for general assembly of close fitting parts, quick repairs and bonding of transparent materials. CA5011 bonds to a variety of substrates such as wood, metal and plastics quickly and effectively without the need for vapor control.

Surface moisture will initiate the hardening process. Handling strength is reached quickly and can vary depending on environmental conditions and type of substrate used. This product will continue to cure for at least 24 hours before full strength and chemical resistance is achieved. Allow product to develop full strength before use with full loads.

CA5011 is suitable for use in medical device assembly. It has been tested and is proven non-toxic per ISO 10993-5. Manufacturers should test their own finished product for biocompatibility. Certificates of compliance are available upon request.

TYPICAL PROPERTIES:

All properties given are at 25 °C unless otherwise noted.

<u>Property:</u>	<u>Value:</u>	<u>Test Method or Source:</u>
Color	Clear	Visual
Viscosity	40-80 cps	Brookfield Viscosity Spindle 21 @100rpm@25 °C
Specific Gravity	1.10	Calculated
<u>Cure Speed:</u>	<u>Fixture time/full cure:</u>	
ABS	15-25 seconds/24 hours	
Polycarbonate	15-25 seconds/24 hours	
Aluminum	15-30 seconds/24 hours	
Steel	5-15 seconds/24 hours	
Beech Wood	5-20 seconds/24 hours	
<u>Lap Shear Strength:</u>	<u>In psi:</u>	ISO 4587
ABS	1740 – 1880*	Cured for 24hours @ 22 °C
Polycarbonate	1000 – 1450*	
Aluminum	400 – 700*	
Steel	1300 – 2000*	
Beech Wood	1100 – 1450*	

*substrate failure

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PREPARATION:

For best results and optimum adhesive performance, surface should be clean and free from contaminants. Contaminants can be removed with suitable solvents. When using a cleaning solvent, first check for material compatibility particularly with plastics. An easy method for removing contaminants is by using a clean soft cloth and wiping the surface with acetone or alcohol.

APPLICATION:

Apply in small amounts to one surface only. The parts should then be mated together under slight pressure. This causes the adhesive to spread out into a thin film and assures optimum adhesive performance. The pressure need only be applied for several seconds. CA5011 cures rapidly allowing for bonded parts to be handled in less than 30 seconds for most applications. Full cure is normally reached within 24 hours.

SHELF LIFE:

CA5011 has a shelf life of one year when stored at 5 °C. Optimal storage conditions are 2-8 °C. Storage below 2 °C or greater than 8 °C can adversely affect product properties. When stored in a refrigerator, allow the adhesive to gradually warm to room temperature prior to use. Avoid heat, direct sunlight and high moisture areas when storing. Avoid contaminating open containers. Do not return unused adhesive to original container. DO NOT refrigerate open containers.