



# TECHNICAL INFORMATION

## CA 4210 Black Modified Cyanoacrylate

### DESCRIPTION

CA 4210 is a Black modified, tough cyanoacrylate with higher peel and shock resistance to other grades.

### APPLICATIONS

Varied, bonding rubbers, metals but also acting as a strain relief in tough, demanding environments.

### USEFUL HINTS/NOTES

CA4210 is designed for use with Activator 7A11 to cure through gaps and large deposits or drop such as bridging and tacking/strain relief of components.

### PROPERTIES

Tensile Strength.....25 N/mm<sup>2</sup> (Steel)  
Peel Strength.....<4 N/mm<sup>2</sup> (Steel)  
Cure without Activator.....Slow (<60seconds)

### INSTRUCTIONS FOR USE

Ensure parts are clean, dry and free from oil and grease.

### PROCEDURE FOR APPLICATION

When requiring faster cure, the Activator can be sprayed onto components and adhesive applied dropwise. Alternately overspray Activator onto adhesive to surface cure and bridge gaps. Some applications allow for pre and post application. Trials are recommended.

### COMPATIBLE

#### ACCELERATORS/PRIMERS

Primers such as A455 or Double Strength A113 as accelerators for fillet cure for priming absorbent surfaces.

#### Bonding strength (Lap shear)

Steel Bonds:.....Up to 30 N/mm(2)  
Plastics:.....Up to 20 N/mm(2)  
Elastomers:.....Up to 15 N/mm(2)

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### TECHNICAL FEATURES

Resin.....Mod Extended Cyanoacrylate  
Colour.....Black  
Cure Speed With Activator.....<15 seconds  
Cure Speed Without Activator.....<60 seconds  
Viscosity.....800-1,500 cps  
GapFill.....0.05mm to 0.2mm  
Flash Point.....>85°C  
Shelf Life.....6 months @ 20°C  
Specific Gravity.....1.05  
Max. Operating Temperature.....85°C (constant)  
.....>100°C (intermittent)

### TYPICAL PROPERTIES OF CURED MATERIAL

#### Physical Properties

Coefficient of thermal expansion, ASTM D696, K<sup>-1</sup> 80x10<sup>-6</sup>  
Coefficient of thermal conductivity, ASTM C177, W.m<sup>-1</sup> K<sup>-1</sup> 0.1  
Glass Transition temperature, ASTM E228, °C 120

#### Electrical Properties

Dielectric constant & loss, 25°C, ASTM D150:

	Constant	Loss
measured at 50Hz:	2.3	<0.02
1kHz:	2.3	<0.02
1mHz:	2.3	<0.02
Volume resistivity, ASTM D257,Ω.cm:		1 x 10 <sup>16</sup>
Dielectric strength, ASTM D149, kV/mm		25

### STORAGE

Thixotropic/High Viscosity products which contain additives have lower Shelf Life stability and it is usually reduced to 4 months @ 20C. For optimum performance and to extend Shelf Life, storage @ 5C in dark conditions is recommended. Normal ambient temperature of 20 C gives a 4 months shelf life in unopened condition.

### HEALTH & SAFETY IN USE

DANGER -Superglue bonds skin and eyes in seconds.

If accidental skin bonding happens wash with warm soapy water and prise skin apart using a blunt instrument (such as a teaspoon handle).

In case of eye contact, bathe immediately with water and seek immediate medical attention.