



2241

2241 is a black, high viscosity, rubber- toughened ethyl cyanoacrylate adhesive. It provides superior shock and thermal resistance when bonding rubbers, metals, and plastics in harsh environments, and displays excellent strength and flexibility on a variety of substrates. 2241 is certified to ISO 10993-5 for biocompatibility, making it appropriate for use in medical applications.

Technology / Base	Ethyl	
Type of Product	Cyanoacrylate	
Components	One Component	
Curing	Humidity	
Appearance / Color	Black	
Consistency	Liquid	

Technical Data					
Rheology		Value	Condition/Method		
Viscosity		2500 +/- 500 cPs			
Density Specific Gravity		1.06			
Uncured Materia	I Characteristics				
Flash Point		85°C (185°F)			
Set Time	Steel	30 - 90 sec			
	ABS	7 - 13 sec			
	EPDM	7 - 13 sec			
Shelf Life		9 mo			
Cured Material Characteristics					
Full Cure Time		24 hours			
Cure Appearance		Black			
Service Temperature		-55 to 140°C			
RoHS Compliant		yes			
Cured Mechanical Properties		See Graphs and Table Below			

General Instructions

Surfaces to be bonded should be clean and dry. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film layer after compression. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less that one minute and maximum strength is attained in 24 hours. Wipe off excess adhesive from the top of the container and recap. products if left uncapped may deteriorate by contamination from moisture in the air. Because products cure by polymerization, whitening may appear on the surface of the container or the bonded materials. This will not affect adhesive performance.

Curing Performance

Ambient surface moisture initiates the curing process. Handling strength is reached in a short time, and will vary based on environmental conditions, bond line gap, and other factors. Product will continue to cure for at least 24 hours before full strength and solvent resistance is developed.

Storage

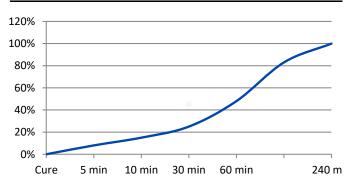
Containers should be stored in a cool, dry, dark area. Storage temperature 15.5°C - 25°C (60°F - 77°F), without exposure to direct light or heat. Do not refrigerate.

Specifications and Approvals

10993-5

Mil-A-46050C, Type II Class III

Time Until Full Cure (% of RT strength)

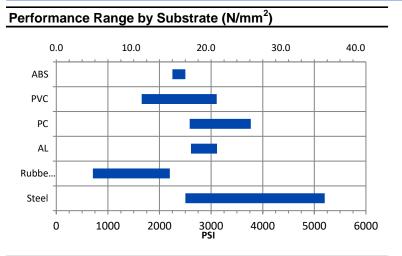


Safety & Disposal

For safe handling information and disposal instructions on this product, consult the Safety Data Sheet (SDS)







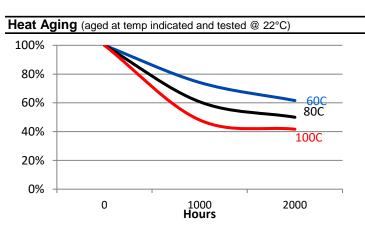
Performance of Cured Adhesive PSI Substrate N/mm² 17.2 Steel 35.9 2500 5200 to to 4.9 15.2 710 2200 Rubber* to to AL 18.0 21.5 2610 3115 to to PC** 17.8 26.0 2585 3770 to to PVC** 11.4 21.4 1655 3110 to to ABS** 15.5 17.2 2250 2500

*Rubber figures given are typical. Your results may vary by specific rubber type.

**Tested to ASTM 4501

***n/r = not recommended

to



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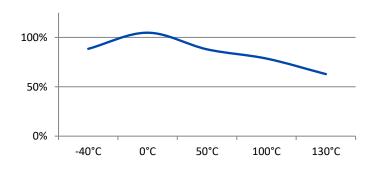
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Solvent Resistance

Solvent	Example	Resistance
Alcohol	Ethanol, Methanol	+ + +
Ester (aromatic)	Ethylacetate	+ + +
Ketone (aromati	Acetone, Benzophenone	
Aliphatic hydrocarbon (alkanes)	Petrol, Heptanes, Hexane	++_
Aromatic hydrocarbons	Benzyl, Toluol, Xylol	+ + _
Halogenated hydrocarbons	Methylenchloride, Chloroform, Chlorobenzol	
Weak aqueous	Nitrite, muriatic acid, sulphuric acid, phosphoric acid	+ + + (if concentrated)
Weak aqueous base	sodium hydroxide solution, caustic potash	+ + + (if concentrated)

Hot Strength (%RT strength, tested at temperature)



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