

BLACK FLEXIBLE RUBBER TOUGHENED ADHESIVE PART NO. 42241-05

DESCRIPTION

Dynatex® Rubber Toughened Adhesive is a black medium viscosity, rubber-toughened ethyl cyanoacrylate adhesive. Provides superior shock and thermal resistance when bonding rubbers, metals, and plastics in harsh environments.

PHYSICAL PROPERTIES

MONOMER (Liquid)

Base Compound	Ethyl Cyanoacrylate
Appearance.....	Black Liquid
Viscosity (cps @ 68°F)	500 cP
Specific Gravity (g/cc).....	1.06
Flash Point (TCC)	185°F
Shelf Life @ 60°F.....	6 months in unopened containers
Military Specifications.....	Mil-A-46050C Type II, Class 2

CURING PROPERTIES

Ambient surface moisture will initiate the hardening process. Handling strength is reached in a short period of time and varies depending on environmental conditions and substrates being bonded. Product will continue to cure for at least 24 hours before full strength and resistances are developed.

Setting Time (68 F, 65% R.H.)

Steel	25 to 60 seconds
Aluminum	25 to 50 seconds
Neoprene.....	20 to 40 seconds
ABS	25 to 50 seconds
Polycarbonate	40 to 80 seconds
PVC	20 to 38 seconds

CURING PERFORMANCE

The gap of the bond line will affect set speed. Smaller gaps tend to increase the speed. Activators can be applied to improve set speed but may also impair overall adhesive performance.

POLYMER (Cured)

Appearance.....	Black Solid
Service Temperature Range	-65 ⁰ F to 250 ⁰ F
Softening Point.....	329 ⁰ F
Refractive Index (ND 20)	1.49
Full Cure Time.....	24 Hours
Dielectric Strength KV/mm	11.6
Dielectric Constant @ 1Kc	5.4
Coefficient of Thermal Expansion (in./in./F)000126
Tensile Strength (Steel/Steel)	3700 psi
Solubility.....	Nitromethane, Acetone, Dimethylformamide

Performance of Cured Materials

(Tensile shear strength, cured for 48 hours @ 20-25⁰C (68-77⁰F)

Substrate	Range in N/mm2
Blasted Steel	20 to 28
Etched Aluminum.....	14 to 23
Neoprene	>10
ABS	>6
Polycarbonate.....	>5
PVC	>6

CHEMICAL RESISTANCE

Sheer strength on steel after 12 month soak

Solvent	% Strength Retained
Motor Oil	100
Gasoline	100
Trichloroethane.....	100
Freon TA	100
10% NaOH	0
10% Hcl	0
Water	0

GENERAL DIRECTIONS

1. Make sure the surfaces to be bonded are clean and dry.
2. Dispense a drop or drops to one surface only. Apply only enough to leave a thin film after compression.
3. Press parts together and hold firmly for a few seconds. Good contact is essential. An adequate bond develops in less than one minute. (Maximum strength is attained in 24 hours.

4. Wipe off excess adhesive from the top of the container and recap. *Dynatex® Rubber Toughened Adhesive* if left uncapped, may deteriorate by contamination from moisture in the air.
5. Because *Dynatex® Rubber Toughened Adhesive* condenses by polymerization, sometimes whitening will occur on the surface of the container or the bonded materials. Should this happen, wipe surfaces well with acetone.

STORAGE

Product should be stored unopened in a cool, dry place out of direct sunlight. Products can be refrigerated for improved shelf life but should be brought back to room temperature before use.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it the user's responsibility to determine suitable of use. Since the supplier cannot know all the uses, or the conditions of use to which there products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

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