INDUSTRIAL KRAZY GLUE TM

Product name: Aron Alpha Type 202

FEATURES

General purpose adhesive for multiple bonding applications. Standard, medium viscosity type for Intermediate gap filling-type with moderate setting time.

PROPERTIES

		202
Liquid	Appearance	Colorless,
State		Transparent
(Before	Base Monomer	Ethyl
curing)		2-Cyanoacrylate
	Viscosity (cps)	100
	Specific Gravity (d ²⁰)	1.050
	Flash Point (Closed cup, °C/°F)	83/181
	Freezing Point (°C/°F)	-29/-21

		202
Solid	Appearance	Colorless,
State		Transparent
(After	Specific Gravity (d ²⁰)	1.248
curing)	Hardness (Rockwell M)	85
	Softening Point	145/293
	(Vicat: °C/°F)	

PERFORMANCE

Setting time

Material	Setting Time
	(sec)
Rigid PVC	10
Polymethylmetacrylate	30
ABS	60
Polycarbonate	60
Natural Rubber	10
Steel	50
Copper	5
Phenolic Resin	10
Rigid PVC/Steel	30
Aluminum/ABS	60
Phenolic Resin/Copper	10
Neoprene Rubber/Steel	60
Neoprene Rubber/ABS	40

Bonding strength Tension

Material	Bond Strength in Tension (psi)
Rigid PVC	5000
Polymethylmetacrylate	5000*
ABS	3600*
Polycarbonate	5000
Natural Rubber	360*
Steel	4600
Copper	5000
Phenolic Resin	5000*
Rigid PVC/Steel	2600
Aluminum/ABS	2100
Phenolic Resin/Copper	3600
Neoprene Rubber/Steel	360*
Neoprene Rubber/ABS	360*

Bonding strength Shear

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	Material	Bond strength in		
		Shear (psi)		
	Rigid PVC	1000*		
	Polymethylmetacrylate	710*		
	ABS	710*		
	Polycarbonate	1000*		
	Natural Rubber	70*		
	Steel	2840		
	Copper	3000		
	Phenolic Resin	1000*		
	Rigid PVC/Steel	1000*		
	Aluminum/ABS	710*		
	Phenolic Resin/Copper	1000*		
	Neoprene Rubber/Steel	70*		
	Neoprene Rubber/ABS	70*		

Test conditions—Test specimen

Tensile strength:	0.5 x 0.5 x 1.5 inch; bonded area
	0.25 sq. inch
Tensile shear strength:	for plastic/rubber 0.1 x 1.0 x 4.0 inch;
	bonded area 0.5 sq. inch
	for metal 0.064 x 1.0 x 4.0 inch;
	bonded area 0.5 sq. inch
Bonding atmosphere:	72-75°F, 58-62% relative humidity
Test Methods:	ASTM D2095, D3164, D1002

REGULATION

Military Specification: Mill-A-46050C Type II Class 1

HOW TO APPLY ARON ALPHA

Clean the surfaces to be bonded and then apply Aron Alpha. Be sure to apply Aron Alpha to only one of the surfaces to be bonded, preferably the smaller surface, the surface on which the Aron Alpha set time is longer, or the surface looking upward.

A common error in applying Aron Alpha is to apply an excessive quantity of Aron Alpha or to apply too small of a quantity of Aron Alpha in a wide thin film. In the former case, it is waste of Aron Alpha as well as damaging to the appearance of the bonded materials. This may also bring about chlorosis or solvent cracks. In the latter case, the Aron Alpha monomer may harden before the actual bonding starts and this will reduce the bond strength to a great extent. This is particularly the case with rubber materials.

Therefore, make sure that the nozzle of the Aron Alpha container is touching the surface to be bonded so that you can apply an optimum quantity of Aron Alpha from the container. Immediately after that, mate the two surfaces and let the Aron Alpha monomer spread between the two surfaces. It is not necessary to spread the monomer by using a rubbing motion.

Aron Alpha monomer, if kept in the form of a mound on the surface, does not harden for 5 to 10 minutes and retains sufficient bond strength.

OPTIMIUM QUANTITY OF ARON ALPHA

With Aron Alpha bonding, the thinner the film of the Aron Alpha monomer on the surface to be bonded, the greater is the resulting bond strength. An excessive quantity of Aron Alpha never helps increase the bond strength. On the contrary, it may bring about chlorosis, solvent cracks, or erosion by the Aron Alpha monomer of the surface to be bonded. Test results indicate that with Aron Alpha the optimum quantity to be applied at one time is 0.004 -0.006 g/cm² or 0.03 - 0.05 mm in terms of film thickness. On the

Toagosei America Incorporated • 1450 West Main Street • West Jefferson, Ohio 43162 Tel: (614)-718-3855 • Fax: (614)-718-3866 • E-mail: sales@toagosei.net

ARON ALPHA®

basis of the value of 5 mg/cm², you can obtain standard bond strengths as shown in the tables above.

STORAGE

Conditions to consider when storing Aron Alpha

Humidity

Avoid moist, humid storage conditions. Fasten cap tightly to avoid exposure to moisture. Store with desiccant.

Temperature

Avoid storing at a high temperature.

When storing Aron Alpha for an extended period, refrigerate between $32^{\circ}F$ and $40^{\circ}F$.

Sunlight

Avoid direct exposure to ultraviolet light (keep in light-proof packaging).

Other

Never store Aron Alpha with an accelerator.

WARNING

Eye and Skin irritant. Bonds skin instantly. Combustible – keep away from heat and flames. Please read adhesive SDS before using.

Disclaimer:

Please be advised that test results are those which were prepare at Toagosei America's laboratory. The results may vary under actual application conditions.

It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof.

Material removed from original containers may be contaminated during use. Do not return product to the original container. Toagosei cannot assume responsibility for product which has been contaminated or stored under conditions other than previously indicated.

If additional information is required, please contact your Toagosei Technical Department or Customer Service Representative at 614-718-3855 or 1-800-338-5192 or via email at sales@toagosei.net