Cyberbond

Physical Properties - Monomer (Uncured)

Apollo H4

TECHNICAL DATA SHEET

Apollo H-4 is a single component, fast-setting, low to medium-viscosity cyanoacrylate adhesivefor use on all types of substrates. It is designed to set and adhere rapidly to inactive surfaces such as wood, leather and fiberglass matting. Apollo H-4 offers viscosity and flow characteristics that are ideal for filling small gaps.



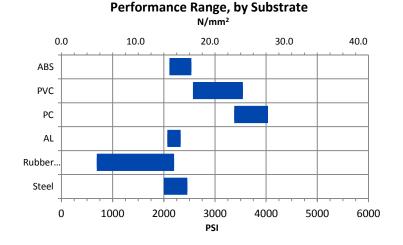
Ethyl						
Etilyi						
Clear						
110 +/- 20 cPs						
1.06 g/cc						
85°C/ 185°F						
12 mo						
15.5°C to 25°C (60°F-77°F)						
yes						
Physical Properties - Polymer (Cured)						
24 hours						
Clear						
-55 to 95 °C (-67 to 203 °F)						

Setting Time

U U		
Steel	12	seconds
ABS	13	seconds
EPDM	< 6	seconds
		seconds

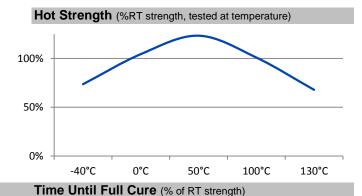
Performance of Cured Adhesive								
N/mm ²				PSI				
13.8	to	17.0	2000	to	2460			
4.8	to	15.2	690	to	2200			
14.3	to	16.1	2070	to	2330			
23.3	to	27.8	3375	to	4035			
17.7	to	24.4	2570	to	3545			
14.5	to	17.5	2110	to	2540			
	13.8 4.8 14.3 23.3 17.7	N/mm² 13.8 to 4.8 to 14.3 to 23.3 to 17.7 to	N/mm² 13.8 to 17.0 4.8 to 15.2 14.3 to 16.1 23.3 to 27.8 17.7 to 24.4	N/mm² 2000 13.8 to 17.0 2000 4.8 to 15.2 690 14.3 to 16.1 2070 23.3 to 27.8 3375 17.7 to 24.4 2570	N/mm² PSI 13.8 to 17.0 2000 to 4.8 to 15.2 690 to 14.3 to 16.1 2070 to 23.3 to 27.8 3375 to 17.7 to 24.4 2570 to			

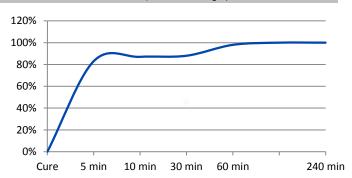
*Rubber figures given are typical. Your results may vary by specific rubber type. **Tested to ASTM 4501 ***n/r = not recommended

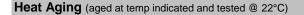


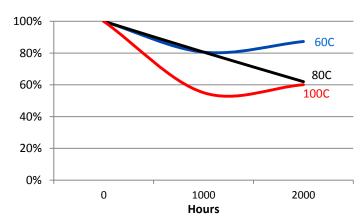
Specifications and Approvals

None









Solvent Resistance

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

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. Apollo products if left uncapped may deteriorate by contamination from moisture in the air. Because Apollo 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 $15.5^{\circ}C - 25^{\circ}C (60^{\circ}F - 77^{\circ}F)$, without exposure to direct light or heat. Do not refrigerate.

Note

The data contained herein are furnished for information only and are believed to be reliable. Cyberbond cannot assume responsibility for the results obtained by others over whose method Cyberbond does not control. It is the user's responsibility to determine suitability for the product or 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. In light of the foregoing, Cyberbond specifically disclaims all warranties of merchantability or fitness for a particular purpose arising from sale or use of Cyberbond products. Cyberbond specifically disclaims any liability for consequential or incidental damages of any kind, including loss of profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Cyberbond patents which may cover such processes or compositions. We recommend that each prospective user test the proposed application to determine its suitability for the purpose intended prior to incorporating any product or application in its manufacturing process using the data as a guide.

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



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