Technical data sheet



Product:	2610
Manufacturer:	H.B. FULLER
Product group:	KLEBSTOFF
Article group:	CYANACRYLAT
Download:	17.05.2024

CYBERBOND CB 2610

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH Industriestraße 15 D-75382 Althengstett Telephone: E-Mail: +49(0)7051/9297-0 Website: +49(0)7051/9297-99 www.tewipack.de

Fax

info@tewipack.de

Managing director: Alexander Uhl, Michael Uhl HRB 330424 Calw Amtsgericht Stuttgart 85

Bank details: Sparkasse Pforzheim BLZ 666 500 Konto 17 787

Commerzbank Sindelfingen BLZ 603 400 71 Konto 8 001 166

Vereinigte Volksbank AG Böblingen BLZ 603 900 00 Konto 80 089 003

Postbank Stuttgart BLZ 600 100 70 Konto 146 294 708



CB 2610

Technical Datasheet

- **Neomer Series**
- very fast bonding
- medium viscosity
- surface insensitive

The Neomer Series stands for the so called surface insensitive Cyanoacrylates. These products perform very well on most materials including acid surfaces such as wood, leather, cardboard, paper etc. Due to its viscosity CB 2610 should be considered as the general purpose grade of this range. CB 2610 is also known as CB 2611, in different countries; both products are identical.

Physical properties - monomer		Specification		
(uncured)		ISO 10993-5: Tests for in-vitro cytotoxicity		
Base compound Appearance	Ethyl-2-cyanoacrylate colourless, transparent	(biocompatibility).		
Density at 20 °C in g/cm3	1,06	NSF: (Nonfood Compounds Registration Program)This product is acceptable for use as an instant adhesive, in		
Flashpoint	86	food processing facilities. This product must only be		
Shelf life,20 °C, unopend,in months	12	used in a manner as to ensure it will have neither direct nor indirect contact with food or potable		
Viscosity		RoHS conform.		
cone-plate, @20°C @ 160 rpm	90-180 cps			
Physical properties -	Polymer			
Appearance Service temp range	transparent -55 - 95 °C	For details and certificates see www.Cyberbond.eu		
Setting time [seconds]		Hot Strength on steel		
metal (steel)	5 - 25	% of RT strength, tested at temperature		
EPDM	1 - 4			
plastic (ABS)	1 - 3	140 %		
wood (beech)	0 - 45	120 %		
		100 %		
strength of cured adhesive		80 %		
Substrate	N/mm²	60 %		
NBR-rubber	5 to 12	40 %		
steel	12 to 22	20 %		

0% -



-40 -20 0 20 40 60 80 100 120 140 160 °C





Heat Aging - on aluminum tested @ 20°C



Durability after Alternating Climate

Storage Conditions; tested with stainless steel above freeze point 80% rel. humidity temperature range: -20 - 80 °C Cycle count

Holding time at start temperature	[h]
Heating up phase	
Keeping warm phase	
Cooling down Phase	

Holding time at final temperature



Solvent resistance	Solvent resistance			
Solvent	Example	Resistance		
alcohol	ethanol, methanol	+++		
ester (aliphatic)	ethyl acetate (acetic acid ethyl ester)			
ketones	acetone, benzophenone			
aliphatic hydrocarbons (alkanes)	petrol, heptane, hexane	++		
aromatic hydrocarbons	benzene, toluene, xylene	++		
halogenated hydrocarbons	methylene chloride, chloroform, chlorobenzene			
weak acqueous acids	diluted nitric- , muriatic-, sulfuric- , phosphoric acid	+++		
concentrated acid	nitric acid, muriatic acid, sulfuric acid, phosphoric acid			
weak acqueous bases	diluted sodium hydroxide -, caustic potash solution	+++		
concentrated bases	sodium hydroxide -, caustic potash solution			
water		++		
iso-propanol		+++		
acetone				
mineral oil		++		
+++ very good ++ good	very bad			

General Information CA

60

0

3

3

3

3

Cyanoacrylates are fast setting, one component and solvent free adhesives. They are based on esters of cyanoacetic acid. To get to a finished product, mainly thickeners, respectively film forming agents (polymer methacrylics and acrylics) and stabilisers are added. The polymerization is initiated by present humidity. Best results are given between 40 to 70 % relative humidity.

Cyberbond standard grades are as follows:

- Powerdrop series (stabilised ethyl ester)
- Elastomer and plastic series (ethyl ester)
- Neomer Series (surface insensitive ethyl ester)
- xtraflex series (rubber toughened ethyl ester)
- metal series (ethyl ester)
- low odour series (alkoxy ester)
- medical series (butyl- and octyl ester)

2

Measurement of Viscosities

Viscosity describes the flow-ability of a liquid. Cyberbond measures the viscosity of the products by means of the cone/plate method: the liquid is applied on a panel and a defined cone presses the liquid together and rotates.

You differentiate between a Newtonian and a thixotropic liquid. In terms of a Newtonian liquid you will get a relative constant viscosity graph in dependence of the rotary speed of the cone. In terms of thixotropic liquids the product becomes more liquid (down to its base viscosity) the faster the cone rotates.

The viscosity is measured in mPa*s (milli Pascal x second) [SI system] or in cP (centipoise) [CGS- system]; 1 mPa*s = 1 cP.

In order to allow products comparison all adhesives are measured at the same rotation speeds.

- Newtonian liquids at 160 rpm

- Thixotropic liquids at 0,5 rpm and at 160 rpm

Temperature always is at 20 $^\circ\text{C}$ / 68 $^\circ\text{F},$ if not mentioned to be different.

Clean Surface

The surface condition of the mating parts has an enormous influence on the success of a bond. To achieve good bonding success the mating parts should be clean.

Additional Programme

In order to support certain applications Cyberbond offers perfectly balanced additional products such as:

- Primer and Conditioner Pen: in order to change surface tension; enables to bond unpolare materials (Standard: CB 9056)

- D-Bonder: in order to dissolve adhesives (Standard: CB 9060, CB 9065, CB 9066)

- Activator: in order to accelerate the curing of adhesives (Standard: CB 9090, CB 9096, Quickstep 9040, Quickstep 9080)

- Cleaner: in order to clean surfaces professionally (Standard: CB 9999)

LINOP Equipment

Cyberbond offers by means of the LINOP Equipment range suitable dosing and LED based curing devices. We also refer to suitable dosing tips which help an economical use of the adhesives (also if used manually).

Storage

Store products in a cold and dark place. Before use allow to reach ambient temperature.

Potential Danger of Cyanoacrylates

You should care for the following:

- use in well ventilated areas only
- install suitable exhaust systems in the workshop
- apply material economically and use a dosing system where appropriate

- allow a consistent relative humidity of 50 to 65 %; with regards to lower figures the polymerization will be delayed and monomer adhesive fume will appear

- if necessary: wear suitable, non-sucking gloves (e.g. no cotton)

- keep adhesive out of reach of children

The data mentioned in this TDS, particularly the recommendations and use of products are based on our recent knowledge and experience. Due to the fact of having so many different materials involved and conditions of applications which are out of our influence, we strongly recommend to do sufficient tests in order to guarantee that Cyberbond products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any verbal advice is hereby expressly excluded.

For safe handling consult Material Saftey Data Sheet (MSDS).

Cyberbond Europe GmbH A H.B. Fuller Company Werner-von-Siemens-Straße 2 31515 Wunstorf Germany Tel.: +49 / 50 31 / 95 66 - 0 www.cyberbond.de



Cyberbond CB