

PRODUCT DESCRIPTION

different types of ferrites.

Technical Data Sheet MXBON® 31326

Cure Speed vs. Bond Gap

The rate of cure will depend on the bondline gap. The graph below shows the breakaway strength developed with time on grit blasted steel lap shears compared to different materials and tested according to ISO 4587. (Activator 017649 applied to one surface).

Revision: EN002

Revision Date: Dec. 2022

Technology	Acrylic
Chemical Type	Urethane methacrylate ester
Appearance (uncured)	Transparent light amber
	liquid
Components	One component – requires
	no mixing
Viscosity	High
Cure	Anaerobic
Secondary Cure	Activator
Application	Bonding

MXBON® 31326 is a yellow to amber, no-mix, one component,

acrylic magnet bonder for surface permanent magnets (SPM) that is

used for fast cure and high shear strength. It has good adhesion to

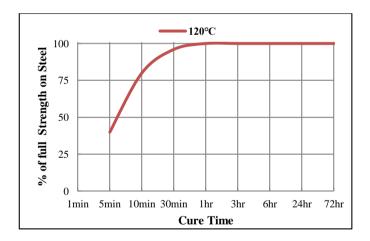
	100	0.05mm0.25mm0.5mm	
eel	100		
n St	75		
th o			
leng	50		
% of full Strength on Steel	25		
%	0		
	-	nin 5min 10min 30min 1hr 3hr 6hr 24hr 72hr	
Cure Time			

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.1		
Flash Point -	See SDS		
Viscosity, Brookfield - RVT, 25 °C, mPa·s (cP)			
Spindle 6, 20 rpm	11,000 to ,25,000		
Shelf life	24 months unopened when		
	stored at 8 to 12°C		

Cure Speed vs. Temperature

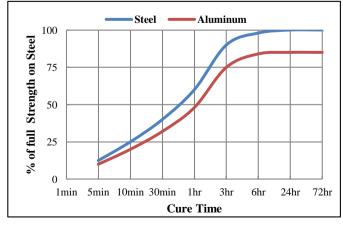
The rate of cure will depend on the ambient temperature. The graph below shows shear strength developed with time at $120~^{\circ}$ C on grit blasted steel lap shears and tested according to ISO 4587.



TYPICAL CURING PERFORMANCE

Cure Speed vs. Substrate

The rate of cure will depend on the substrate used. The graph below shows the breakaway strength developed with time on grit blasted steel lap shears compared to different materials and tested according to ISO 4587. (Activator 017649 applied to one surface).



TYPICAL PERFORMANCE OF CURED MATERIAL

Physical Properties

Elongation, at break. ISO 527-3, %	130
Tensile Strength, ISO 527-2, N/mm ²	35
Tensile Modulus, ISO 527-2, N/mm ²	290
Coefficient of Thermal Expansion,	7.5×10^{-5}
ISO 11359-2, mm/mm/K	
Coefficient of Thermal Conductivity,	0.1
ISO 8302, W/mK	
Specific Hea, kJ/(kg·K)	0.3

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 For more details, consult Cartell Chemical Co., Ltd.: www.mxbon.com





Electrical Properties

5.5/0.03
5.4/0.03
4.5/0.04
30
2×10^{13}
2×10^{17}

Adhesive Properties

Cured for 24 hrs @ 25 °C, Activator 017649 on 1 side Lap Shear Strength, ISO 4587/ASTM D1002/JIS K6850 GBMS (Grit Blasted Mild Steel)

Bond Gap	N/mm ²	psi
0 mm gap	≥15.2	2204.6

Cured for 24 hrs @ 25 °C, Activator 017649 on 2 side Lap Shear Strength, ISO 4587/ASTM D1002/JIS K6850 GBMS (Grit Blasted Mild Steel)

Bond Gap	N/mm ²	psi
0.25 mm gap	≥13.8	2001.5

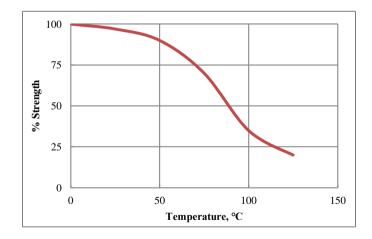
TYPICAL ENVIRONMENTAL RESISTANCE

Cured for 1 week @ 25°C

Lap Shear Strength, ISO 4587/ASTM D1002/JIS K6850 GBMS (Grit Blasted Mild Steel)

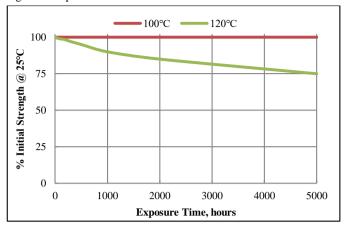
Heat Strength

Tested at temperature



Heat Aging

Aged at temperature indicated and tested @ 25 °C



Chemical/Solvent Resistance

Aged under conditions indicated and tested @ 25 °C

	% of initial strength				
Environment	°C	100 h	500h	1000h	5000h
Motor oil	25	100	100	100	100
gasoline	25	100	60	60	60
Humidity, 98% RH	40	85	50	45	45
Water/glycol 50/50	87	100	40	40	40

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be use with chlorine or other strong oxidizing materials. Where washing systems are used to clean the surfaces before bonding, it is important to check the compatibility of the washing solution with the adhesive. In some cases, these solutions can affect the cure and performance of the adhesive. This product is not recommended for use on certain plastics. Users are recommended to confirm compatibility of the product with such substrates.

Storage & Handling precaution

Keep adhesive in a cool and dry place. The storage temperature is recommended at 8 °C to 12 °C. For details, consult the Safety Data Sheet, (SDS). Shelf life is two years from the date of manufacture in the original container under the optimal conditions.

- 1. Avoid contact with skin and eyes.
- 2. If contact with skin, rinse with water.
- 3. If adhesive gets into eye, keep eye open and rinse with water thoroughly. Seek medical attention immediately.
- 4. Keep the material out of children's reach.

Note

The data contained herein are furnished for informational purposes only and are believed to be reliable. However, Cartell Chemical Co.,







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