

Cyberbond CB

AL 6028

Technical Datasheet

AL 6028 is a two component methyl methacrylate adhesive. It is especially suited for bonding metals to different plastics and composites.

- high elasticity and elongation
- short open time

Physical properties - Liquid state

Base compound Methyl methacrylate

Shelf life 12 months A / B: 1,07 g/cm3 Density

Mixing ratio 1:1 Open time 40 - 60 s 4 - 7 min Fixture time 10 °C Flashpoint Off white Color component A Color component B Amber

Viscosity

Cone / plate, measured

at 20 °C

@ 0.5 s-1 10.000 - 20.000 mPas

Physical properties - Polymer

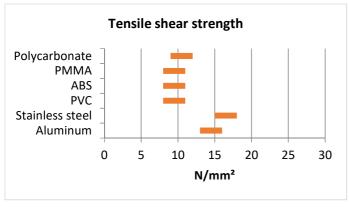
Full cure in hours

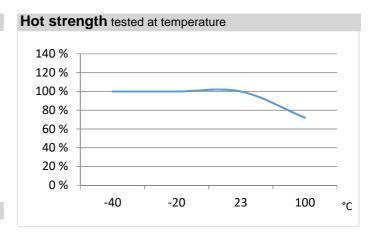
Temperature range -50 - 120 °C Elongation at break 180 - 220 % E-modulus 150 - 300 MPa Tensile strength 9 - 12 MPa

Adhesive performance Tensile shear strength

Substrate	N	/mm) ²
Polycarbonate ▲	9	-	12
PMMA ▲	8	-	11
ABS ▲	8	-	11
PVC ▲	8	-	11
Stainless steel	15	-	18
Aluminum	13	-	16

▲ Substrate failure





Resistance against solvents

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Solvent	Example	Resistance		
Weak acids		+++		
Weak bases		+++		
Polar solvents		-		
Strong acids and bases		-		

+++ very good - limited

General Information about MMA adhesives

2-component methacrylate adhesives belong to the group of reactive adhesives. The reaction starts by mixing hardener and resin. Cyberbond offers these adhesives in double cartridges in 1:1 or 10:1 ratio with static mixing tubes. This allows an easy and quick application. Methacrylate adhesives are available in different viscosities from liquid to paste-like and with different curing times. They are characterized by excellent adhesion to metals, many plastics and composite materials. The mechanical properties range from flexible to rigid.

Measurement of Viscosity

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.

Newtonian fluids are measured at shear rate 160 s-1, thixotropic products are measured at shear rate 0,5 s-1 and 160 s-1.

The viscosity is measured in mPa*s at 20 °C.

IATF 16949, ISO 13485, ISO 9001 & ISO 14001 Cyberbond CB -Publizised-

Clean Surface

Surfaces should be clean, dry and free of grease before bonding.

Storage

Store products in a cold and dark place at temperatures between 10 °C to 20 °C.

Safety Information for MMA adhesives

Please consult the SDS (Safety Data Sheet) before using. Keep the workplace clean and use in well ventilated areas only. Install suitable exhaust system at the workplace. Wear suitable safety glasses and gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

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).

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