



TECHNICAL BULLETIN

EPOXIBOND EB-701 FAST SETTING EPOXY ADHESIVE

EB-701 is a thixotropic, fast setting, 5 minute epoxy adhesive based on polymercaptopan curing. This adhesive has an excellent combination of shear and peel strength. It has also excellent impact and vibration resistance and low temperature flexibility. This high performance epoxy adhesive exhibits very good physical, thermal, and electrical insulation properties. It is recommended for bonding engineering thermoplastics, SMC (sheet molding compounds) in aerospace and automotive applications. EB-701 is also recommended for bonding gold club heads.

TYPICAL HANDLING PROPERTIES:

Epoxybond	701-A
Hardener	701-B
Mix ratio by weight, (Resin/Hardener)	100/100
Mix viscosity (25°C), cps	Paste
Pot Life at 25°C (28 grams), minutes	3-5
Recommended Cure	12 hrs/25°C

TYPICAL CURED PROPERTIES AFTER RECOMMENDED CURE:

(Tested @ 25°C unless otherwise indicated)

Color	White
Specific Gravity	1.18
Hardness, Shore D	75
Lap Shear Strength to Aluminum, psi	2000
T-peel strength to aluminum (5-8mil bondline)	2-3
Service Temperature range, °C	-40 to 100
Glass Transition Temperature, °C	<50
Coefficient of Linear Thermal Expansion, 10 ⁻⁶ /°C	
Below T _g	100
Above T _g	>200
Dielectric Strength, Volts/mil	490
Dielectric Constant, 1 kHz	4.28
Dissipation Factor, 1 kHz	0.4
Volume Resistivity, ohm-cm	2x10 ¹⁵

INSTRUCTIONS FOR USE:

1. Mix at room temperature, 10 grams of Part-A with 10 grams of Part-B and vacuum degas.
2. Cure as recommended achieving the desired properties.
3. Typical cured properties were determined using recommended cure schedule. Some difference in properties may occur with the alternate or other cure schedules.

FOR INDUSTRIAL USE ONLY:

These materials are intended for industrial use only, and the practices of good housekeeping, safety and cleanliness should be followed before, during and after use.

PACKAGING OPTIONS:

Available in Pint, Quart, Gallon, kits.

Also available in 50mL and 400mL dual cartridge systems.

WARNING!

Although the system contains low volatility materials, care should be taken in handling. Adequate ventilation of work place and ovens is essential. These materials may cause injury to the skin following prolonged or repeated contact and dermatitis in susceptible individuals. In case of skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 10 minutes and seek medical attention. Refer to Material Safety Data Sheet for additional health and safety information.

SHELF LIFE:

The shelf life of these materials is greater than two years when stored in unopened containers at an average temperature of 25°C.