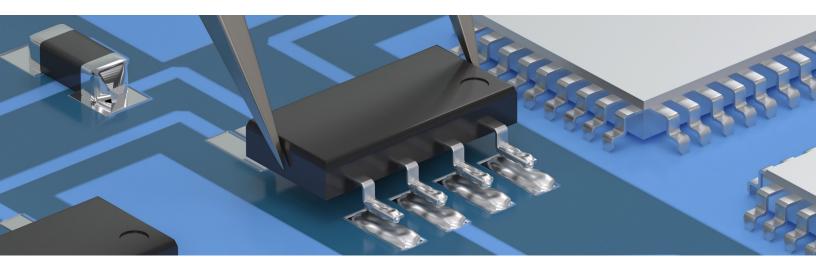
1-Part Epoxy Adhesives





1-Part Adhesives for Easy Manufacturing Processes

MG Chemicals offers a full line of 1-part epoxy adhesives to meet the growing demand for ease of application in the manufacturing process. These adhesives require no mixing, and offer unlimited working time. Our 1-part epoxies enhance productivity by simplifying production processes and storage requirements.

Features and Benefits

- · Easy to dispense—no mixing required
- · Unlimited working time
- Low to moderate cure temperatures
- Extended shelf life at room temperatures
- Excellent adhesion to common electronics substrates and components

Applications

- Surface Mount Technology (SMT)
- · Chip bonding
- LED manufacturing
- · Bonding dissimilar substrates
- Telecommunications equipment
- · Medical devices
- Automotive components

General Bonding

9310 - Surface Mount Adhesive (SMA)

Electrically Conductive

9410 – High conductivity, high T_g

9400 - Extreme conductivity

Thermally Conductive

9460TC – High thermal conductivity

1-Part Epoxy Adhesives



	9310	9400	9410	9460TC
UNCURED PROPERTIES				
Number of components	1	1	1	1
Mixed density [g/mL]	1.15	3.14	2.34	1.64
Working time	Unlimited	Unlimited	Unlimited	Unlimited
Service cure @ 22 °C	_	N/A	N/A	_
RT cure [h]	_	N/A	N/A	_
Heat cure [min @ °C]	30 @ 100	120 @ 70	60 @ 90	120 @ 80
	10 @ 120	30 @ 80	30 @ 100	60 @ 100
			7 @ 120	30 @ 120
CURED PROPERTIES				
Resistivity [Ω·cm]	9.3 x 10 ¹²	3.1 x 10 ⁻⁴	1.8 x 10 ⁻³	7.4 x 10 ¹⁶
Service temperature range [°C]	-55 to 140	-55 to 140	-65 to 145	-65 to 150
Glass transition temperature (Tg) [°C]	113	36	96	106
CTE prior T ₉ [ppm/°C]	56	76	42	36
CTE after T ₉ [ppm/°C]	185	100	150	72
Thermal conductivity @ 25 °C [W/(m·K)]	0.2	4.7	1.1	0.8
Thermal diffusivity @ 25 °C [mm²/s]	0.2	2.2	0.7	0.5
Specific heat capacity @ 25 °C [J/(g·K)]	1.4	0.7	0.8	1.2
Color	Yellow	Silver grey	Silver grey	White
Hardness	84D	74D	70D	86D
Tensile strength [N/mm²]	9.4	2.9	N/A	9.1
Compressive strength [N/mm²]	103	18	26	78
Lap shear (stainless steel) [N/mm²]	8.5	2.9	2.6	6.0
Lap shear (aluminum) [N/mm²]	6.2	3.2	2.8	3.2
Refer to TDS for more information. N/A=Not Available				
AVAILABLE PACKAGING				
Net content	10 mL (syringe)	3 mL (syringe)	3 mL (syringe)	3 mL (syringe)
	300 mL (cartridge)	30 mL (syringe)	30 mL (syringe)	10 mL (syringe)
	Marine 1			





