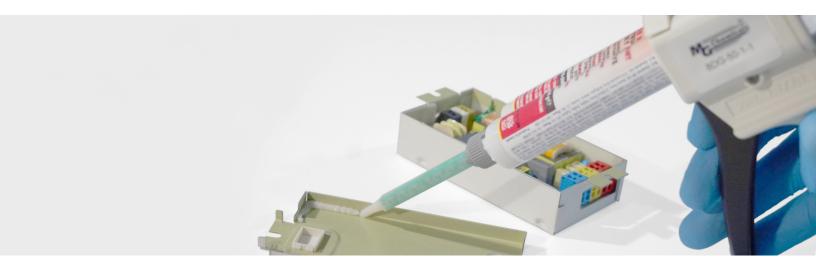
Bonding Adhesives





Bonding Adhesives for Industrial Applications

MG Chemicals bonding adhesives provide significant bond strength to similar and dissimilar substrates. They are used in a wide range of industrial applications where long-lasting load bearing joints are required.

Features & Benefits

- Strong adhesion to a variety of substrates
- Excellent chemical and moisture resistance
- · Exceptional durability and toughness
- Excellent sealing capacity against unwanted liquids and gases
- Weight and cost reduction through elimination of conventional metal fasteners

Applications

- · Automobile body panels
- · Bonding to vertical surfaces
- Battery assembly (cell-to-cell or cell-to-carrier)
- · Aircraft structural adhesives
- Surface mount technology
- · Gap filling, potting, and sealing
- · Bonding windows

One-part

9310 - Surface mount adhesive

Two-part

9200 – Structural, standard, 30 min w.t.

9200FR – Structural, UL 94V-0 rated, 30 min *w.t.*

8332 – Fast set epoxy, 5 min *w.t.*

Dispensing accessories

Dispensing gun – 8DG-50-1-1

Mixing tips – 8MT-50 (standard)

8MT-50-FT (fine flow)



Bonding Adhesives



	8332	9200	9200FR	9310
UNCURED PROPERTIES				
Number of components	2	2	2	1
Mixed density [g/mL]	1.14	1.25	1.34	1.15
Working time	3 to 5 min	30 min	30 min	Unlimited
RT cure [h]	5	48	48	_
Heat cure [min @ °C]	15 @ 65	960 @ 40	960 @ 40	30 @ 100
	_	90 @ 65	180 @ 65	10 @ 120
	_	60 @ 80	90 @ 80	_
	_	15 @ 100	30 @ 100	_
CURED PROPERTIES				
Resistivity [Ω·cm]	1.7 x 10 ¹⁴	2.5 x 10 ¹³	1.1 x 10 ¹³	9.3 x 10 ¹²
Breakdown voltage [V]	23 200	41 500	39 800	41 600
Dielectric strength [V/mil]	250	503	497	220
Service temperature range [°C]	-40 to 150	-40 to 150	-40 to 150	-55 to 140
Glass transition temperature (Tg) [°C]	64	44	59	113
CTE prior Tg [ppm/°C]	76	95	79	56
CTE after T ₉ [ppm/°C]	175	215	126	185
Color	Light yellow	Grey yellow	Light yellow	Yellow
Hardness	82D	76D	78D	84D
Tensile strength [N/mm²]	34	16	13	9.4
Compressive strength [N/mm²]	63	64	46	103
Lap shear (stainless steel) [N/mm²]	4.9	20	14	8.5
Lap shear (aluminum) [N/mm²]	5.9	22	10	6.2
AVAILABLE PACKAGING				
Net contents	25 mL (dual-syringe)	25 mL (dual-syringe)	25 mL (dual-syringe)	10 mL (syringe)
	46 mL (dual-cartridge)	45 mL (dual-cartridge)	45 mL (dual-cartridge)	300 mL (cartridge)







