



CUMING MICROWAVE

C-SIL 285

RoHS
Compliant

TECHNICAL BULLETIN 210-9

SILICONE RUBBER CASTING RESIN

C-SIL 285 is an RTV silicone rubber, supplied in pourable liquid kit form, which will cure into an elastomeric solid with excellent physical, thermal, and electrical properties. C-SIL 285 is useful for making tough, flexible molds, as a caulking and sealing compound, and for encapsulating electrical parts. C-SIL 285-LS is a special grade for applications requiring minimal shrinkage during cure.

C-SIL 285 will cure and bond to itself, but will release fairly easily from most smooth, non-porous surfaces. To improve release, a silicone grease such as Dow Corning "Compound 7" may be applied. The use of this or similar release agents is also recommended when casting epoxies or similar thermosetting resins in C-SIL molds.

INSTRUCTIONS FOR USE

1. Mix Part A thoroughly, and measure out the amount of material required.
2. For every 100 grams of Part A, add 2.5 to 3.2 grams of Part B. Note: 40 drops from a typical medicine dropper = one gram. Pot life is about one-half hour at room temp.
3. Mix materials thoroughly. De-gassing under vacuum is recommended. Pour material into mold or cavity.
4. The material will solidify overnight at room temperature, but maximum properties will not be achieved until several days later. Cure may be accelerated by heating to 150°F for four hours.

C-SIL materials are non-toxic and safe, provided care is taken to protect eyes and avoid excessive skin contact and breathing of vapors. Consult the Materials Safety Data Sheet for details.

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TYPICAL PROPERTIES:

	<u>C-SIL 285</u>	<u>C-SIL 285 LS</u>
Color:	White	White
Viscosity @ 25°C:	38,000 cps	44,000 cps
Shelf Life	12 months	12 months
Durometer Shore A:	55	60
Specific Gravity:	1.70	1.90
Shrinkage:	0.5%	0.3%
Dielectric Strength:	700 v/mil	700 v/mil
Dielectric Constant:	4.0	4.0
Dissipation Factor:	0.02	0.02
Thermal Conductivity:	0.012 cal/(sec-cm-°K)	0.012 cal/sec-cm-°K)
Max. Use Temperature:	400°F	400°F

The information in this Technical Bulletin, although believed accurate, is not a warranty by which Cuming Microwave assumes legal responsibility; it is offered for investigation and verification by the user.