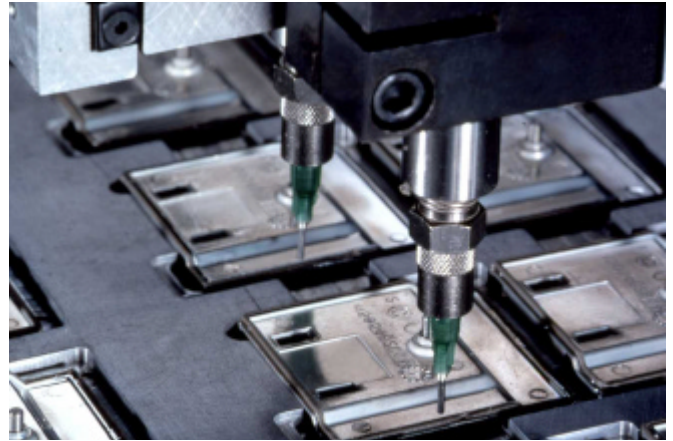


## Preliminary Product Information

### Cho-Form<sup>®</sup> 5531 Form-in-Place EMI Shielding Material

#### Description

Cho-Form<sup>®</sup> 5531 is a one component, moisture cure, form-in-place EMI gasketing material. This electrically conductive formulation contains silver-plated copper particles dispersed in a silicone elastomer. Cho-Form 5531 is designed to be robotically dispensed using high pressure dispense equipment. Applications range among a variety of substrates, from metal castings to electrically conductive coatings on plastic substrates. The material has the best electrical properties of all other moisture cure Cho-Form materials that contain silver-plated copper filler particles. An additional feature of this material is the ability to inspect dispensed beads by means of ultra-violet light.



#### Handling and Curing of Material

Cho-Form 5531 is a moisture cure material and as such the temperature and humidity combination will determine the time necessary for both handling of the parts as well as time for full cure.

#### Features

- Moisture cure at room temperature.
- Designed for low closure force applications
- No solvent in formulation – VOC free
- Six month shelf life at room temperature
- Ability to be inspected with UV inspection equipment

#### Material Dispensing

Cho-Form 5531 is easily dispensed from a variety of commercially available gasket dispense systems. In addition to Chomerics' existing worldwide network of Cho-Form applicators, our Cho-Form applications group can provide support for material dispense needs worldwide for customers wishing to utilize their own or other dispense equipment.

#### Packaging

Cho-Form 5531 is packaged in 1 liter (2.5 kilogram) or 1/10 gallon (800 gram) aluminum cartridges.

The Chomerics part numbers are as follows:

- 19-26-5531-0800 - 800 grams of 5531 in a 1/10 gallon aluminum cartridge
- 19-26-5531-2500 - 2500 grams of 5531 in a 1 liter aluminum cartridge

#### Ultraviolet Detection Characteristics

UV Excitation Wavelength		350 – 380 nm
UV Detector Wavelength		430 – 460 nm

Cho-Form 5531 Properties/ Nominal Cure Cycle

Typical Properties	
Filler	Ag/Cu
Resin	One Part Silicone
Solvent Level-Wet	None
Cure Mechanism	Moisture
Tack Free Time	18 mins. @ 22°C 50% RH
Handling Time	4 hrs. @ 22°C 50% RH
Time for QC Measurements – Electrical Resistance and Adhesion	8 hrs. @ 22°C 50% RH
Final Cure – Optimum Material Properties	48 hrs. @ 22°C 50% RH

Quality Conformance Tests

Property	Method	Typical Value
Volume Resistivity Initial Aged	Chomerics MAT-1002	0.003 ohm-cm 0.004 ohm-cm
Hardness	ASTM D2240	35 Shore A
Tensile Strength	ASTM D412	75 psi
Specific Gravity	ASTM D792	3.2
Compression Set	ASTM D395 Method B 22 hrs @ 85°C	40%
Flow Rate	Chomerics MAT-1200	5.5 gms/min

Cho-Form 5531 Properties/ Nominal Cure Cycle

Property	Method	Typical Value
Shielding Effectiveness 200 MHz to 10 GHz	Chomerics TP08	> 50 dB
Use Temperature (max.)	--	85°C

