

# Sensor Silicones for a connected world

**NOVAGARD**  
PERFORMANCE SILICONES

A S S E M B L I N G | C O A T I N G | P R O T E C T I N G

Sensors are a critical component of devices and embedded systems within medical, automotive, and aerospace industries. Manufacturers are seeking high performance materials for sensor coatings, assembly adhesives, and electrical management materials with strong conductive and dielectric properties to protect against heat, cold, moisture, and stress. Novagard's Electronics Grade Silicones are the go-to material for harsh and demanding environments, and can support the need for quick assembly and the biocompatibility requirements of sensor manufacturers.

## KEY FEATURES

- Thermal stability
- Protection from vibration, shock, contaminants, and chemicals
- Application ease for complex geometries
- Electromagnetic Interference (EMI) protection
- Moisture protection
- Strong dielectric properties
- Adhesion to various substrates including flexible electronics
- Non-corrosive: no unreacted plasticizers post cure
- Solvent free, PFAS free

### LENS COATING ENCAPSULANT

Thin coating that protects the input components of the sensor. UV resistant and meets ISO 10993 biocompatibility standards.  
**Products:** 800-505FC\*, 800-520FC\*†, 800-550\*†, 800-750\*\*†

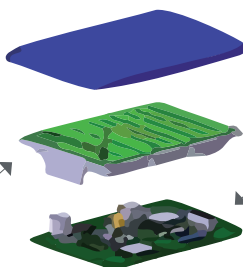
### BOARD PROTECTION

**Coating:** Protects delicate PCB circuitry from dust and moisture.  
**Products:** 800-505FC\*, 800-520FC\*†, 500-210\*

**Staking/Glob Top:** Reinforces a single PCB component.  
**Product:** 800-750\*\*†

**Dam & Fill:** Forms a dam around the defined chip location.  
**Product:** 800-400\*\*, 800-401

Fill material protects the components within the dam.  
**Products:** 800-550\*†, 800-750\*\*†, 800-754, 800-755



### SENSOR POTTING

Permanently protects sensor components from thermal fluctuations and environmental contaminants.  
**Products:** 800-610, 800-750\*\*†, 800-754, 800-755, 600-223, 600-250\*\*, 600-251\*\*

### GASKETING

Thixotropic/semi-flowable material seals the most complex housing geometries and protects interior components from contaminants, moisture, and EMI.

**CIPG:** Re-enterable sealing gasket that allows the opening and closing of housing to access internal components. Material is applied and cured prior to closing the enclosure.  
**Products:** 800-230, 800-400\*\*, 800-401

**FIPG:** Dispensed gasket that cures after assembly to create an enclosure that is not re-enterable.  
**Products:** 500-PV\*, 400-195, 400-900/950

### ASSEMBLY ADHESIVES

Fast assembly adhesives bond to various housing components.  
**Products:** 500-PV\*, 500-452\*\*, 500-418\*\*

### PIN CONNECTOR POTTING

Reduces mechanical and thermal stress on delicate components at connection point.  
**Products:** 800-550\*†, 800-750\*\*†, 800-754, 800-755, 600-223, 600-250\*\*, 600-251\*\*

\* Flame rated: UL94

\*\* Pending flame rated: UL94

† Biocompatibility: ISO 10993

## INDUSTRIES



Advanced Driver Assistance Systems (ADAS). Modern vehicles contain 200+ sensors to ensure safety.



Sensor communication, IoT, and real time tracking for harsh environments.



Biocompatible wearables to advance preventative health data tracking.



Protection and fast assembly of drone, satellite & aerospace components for extreme environments.



novagard.com | ISO 9001:2015 QMS (with design) | IATF 16949:2016 QMS (with design)

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