



Integrated Circuit Molding

Material Selector Guide

High Performance Molding Materials

For Integrated Circuits

For high temperature semiconductor applications, silicone transfer molding compounds can operate at temperatures up to 275°C, as well as provide the productivity and cost effectiveness of a molded plastic package.

GE Silicones also provides silane coupling agents, which are capable of forming chemical bonds between organic and inorganic materials, thus allowing thermal stability when added to epoxy molding compounds.

IC Molding Compound

MC550 BK1 Black
MC550 GY1 Gray

- Thermoset silicone transfer molding compound
- Provides soft flow, long flow duration and fast cure, giving a durable homogeneous package around most intricate devices

Properties

Form	<i>Powder or preforms</i>
Storage Stability, months/°C	<i>6/4</i>
Spiral Flow, inches	<i>29-45</i>
Flow Duration, seconds	<i>17-35</i>
Molding Temperature, °C	<i>177-193</i>
Transfer Pressure, psi	<i>300-1,000</i>
Cure Time, seconds	<i>50-90</i>
Mold Shrinkage, in/in	<i>0.004</i>
Specifications	<i>UL94 V-0*</i>
Packaging	<i>5 gallon pail, 55 gallon fiber drum</i>

IC Molding Compound Additive

TSL9906

TSL8350

- Epoxy modified siloxane oligome
 - Heat and impact modifier for epoxies
 - Great thermal stability
- Epoxy modified siloxane oligomer
 - Heat and impact modifier for epoxies
 - Great thermal stability

Properties

Specific Gravity @25°C	<i>0.995</i>	<i>1.07</i>
Boiling Point, °C	<i>290</i>	<i>290</i>
Flash Point, °C	<i>135</i>	<i>135</i>
Refractive Index	<i>1.446</i>	<i>1.428</i>
CAS #	<i>126-80-7</i>	<i>2530-83-8</i>
Packaging	<i>100 g bottle, 1 kg can</i>	<i>1 kg can, 15 kg pail</i>

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* This rating is based on a standard, small-scale laboratory test and as such is not reliable for determining, evaluating, predicting or describing the flammability or burning characteristics of the product under actual fire conditions.

To Find Out More...

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Customer Service

800.332.3390

- Order entry/status
- Pricing/availability
- Samples • MSDS

Company & Product Info

- GESilicones-Electronics.com
- LJ Fulfillment Services
518.436.1085

Customer Assistance

800.255.8886

- Technical assistance/inquiries
- Application review
- Product recommendations
- Sales support

Customer Specifications

800.525.7149

- Specification inquiries
- Specification reviews

Customer Literature

- LJ Fulfillment Services
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