GE
Advanced Materials

TSK5450

Silicone Grease for Plastic Lubrication

Product Description

TSK5450 is a lubricating grease based on silicone fluid and teflon powder, and is an excellent candidate for light lubrication between plastics over a broad temperature range.

Key Features and Typical Benefits

- Light lubrication between plastics
- Wide operating temperature range: -50°C to 200°C
- Low Volatility
- Rated suitable for incidental food contact*

*Contact a GE Advanced Materials sales representative or distributor for certification details.

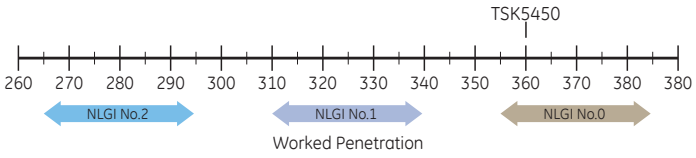
Typical Properties

Appearance		Off White, Translucent
Specific Gravity (25°C)		1.14
Penetration (worked)		360
Evaporation (150°C, 3h)	%	0.1
Base Oil Pour Point	°C	-55
Volatile Siloxane* (D_3-D_{10})	ppm	150

JIS K 2220 * In-house test

Typical property data values should not be used as specifications.

Relative Positioning - NLGI Scale



Potential Applications

- Lubrication for connectors
- Lubrication in plastic components for automotive electronic systems
- Plastic gear lubrication in office equipment, household appliances, consumer electronics

Compatibility with Plastics and Rubber

Substrate	Cracking	Color Change
Polycarbonate	No Crack	No Change
Polyacetal	No Crack	No Change
Phenolic resin	No Crack	No Change
Polystyrene	No Crack	No Change
Rigid polyvinyl chloride	No Crack	No Change
ABS	No Crack	No Change

Test Method:
Test specimen 80mm x 12mm x 2mm

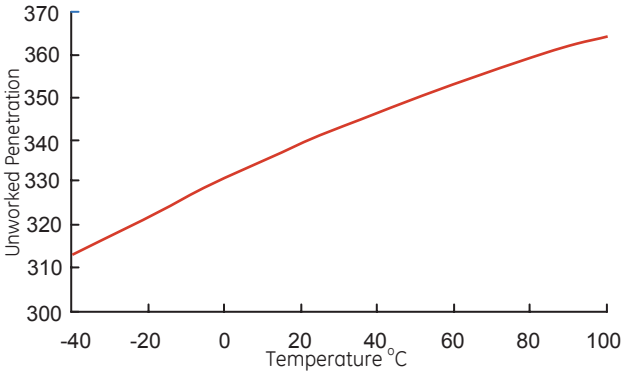
Procedure:
1. Test specimen is bent into a circular arc of 170mm chord length.
2. TSK5450 is applied on the outside surface of the specimen.
3. The specimen is exposed to 70°C for 250 hours.
4. Appearance of specimen observed.

Note: A preliminary test should be performed prior to use

At GE Advanced Materials — Silicones, our versatile materials are the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices. From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.

GE imagination at work

Unworked Penetration Change with Temperature



Handling and Safety

- Wear eye protection and protective gloves when handling the product.
- Use the product in a well-ventilated area.

Storage

- Store in a dark, cool place out of direct sunlight.
- Keep out of reach of children.

Shelf Life

- 9 months from date of manufacture when maintained under recommended storage conditions.

Packaging

- 100g bottle
- 1kg can
- 10kg pail
- 20kg pail

Local Contacts

Regional Information	Phone	Fax
Australia / New Zealand GE Toshiba Silicones Australia Pty. Ltd. 175 Hammond Road, Dandenong VIC 3175, Australia	+613.9703.7200	+613.9706.7597
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