



Product Information

TBL-6619 Grey Thermal Conductivity

Silicone Elastomer

FEATURES

- Two-part, 1:1 mixing ratio.
- Medium viscosity.
- Room temperature cure or rapid heat cure.
- Addition cure system no cure by-products.
- Flame retardant:meets underwriters laboratories UL94-V0 (File NO.:E469464).
- Stable and flexible from -50~200°C.
- Flexible rubber-products against mechanical Shock and thermal cycling stress at components.
- Excellent dielectric properties.

APPLICATIONS

- Designed to protect against moisture,environmental attack,mechanical and thermal shock as well as especially thermal conductivity.
- Typical application include:encapsulation of amplifier, automotive electronic unit, high voltage resistor packs,power supplies,LED lighting etc.

TYPICAL PROPERTIES

Specification writers:These values are not intended for use in preparing specifications. Please contact TBL sales representative prior to writing specifications on this product.

Property	Unit	Value
As supplied		
Colour (Part A/ Part B)		Gray/White
Viscosity at 25°C(Part A/Part B)	mPa.s	2000±500/2000±500
Mixing Ratio weight(Part A: Part B)		1:1
Mixed 1:1 by weight		
Colour		Dark gray rubber
Mixed Viscosity at 25°C	mPa.s	2000±500
Operating time at 25°C	minutes	40~60
Cure time at 25°C	hours	4~6
Heated Cure time at 80°C /100°C	minutes	30 / 20



Physical properties, cured 30minutes at 70°C

Colour		Grey
Specific gravity at 25°C	g/cm ³	1.62±0.05
Hardness,Shore A		50±5
Tensile strength	Mpa	1.0
Elongation at break	%	80
Thermal conductivity	W/(m.k)	≥0.6

Electrical properties, cured 30 minutes at 70°C.

Dielectric Strength, 2mm thickness	kv/mm	≥20
Volume resistivity	Ohm.cm	≥1.0*10 ¹⁴
Dielectric Constant at 100Hz/100kHz		2.98/2.95
Dissipation Factor at 100Hz/100kHz		0.0032/0.0038
Linear CTE	ppm	192*10 ⁻⁶ /°C
Flame retardant UL 94		V0

HOW TO USE

Substrate preparation

All surface should be cleaned and degassed with a suitable solvent prior to potting. Care should be taken to ensure that all solvent is removed.

Usable life and storage

when stored at or below 35°C in the original unopened containers.this product has a usable life of 12 months from the date of production

Pot life

Keep it for 12 months without opening the original barrel cover.However,there will be precipitation at the bottom of the barrel. The longer the time, the precipitation Will occur. Be sure to stir when using it.



Mixing

TBL-6619 silicone elastomer is supplied in lot matched kits consisting of Part A and Part B in separate containers. During long periods of storage, some of the filler may settle at the bottom of the containers and should be individually homogenized prior to use.

The two components should be thoroughly mixed using a weight or volume ratio of 1:1 until the mixture has a uniform colour.

Vacuum de-airing is recommended. A residual pressure of 10-20mm mercury applied for 5-10minutes will sufficiently de-airing the material.

Curing

TBL-6619 silicone elastomer should be cured using one of the following recommended schedules:

- 1). 4~6 hours at 25°C
- 2). 30minutes at 80°C
- 3). 20 minutes at 100°C

Limitations:

This products is neither tested nor represented as suitable for medical or pharmaceutical uses.

Warranty Information –please read carefully

The information contained herein is offered in good faith and is believed to be accurate, However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that TBL's products are safe, effective, and fully satisfactory for the intended and use. TBL's sole warranty is that the product will meet the TBL sales specifications in effect at the time of shipment. your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. TBL specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless TBL provides you with a specific, duly signed endorsement of fitness for use. TBL disclaims liability for and incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.