

Description

TH855-5LB is a dispensable silicone based thermally conductive putty. It has high extrusion rate, low bleed and non-flowable. It is designed for very good thermal conduction with high electrical insulation.

Features

- High thermal conductivity
- High compressible
- Dispensable
- Non electrical conductive
- Low outgassing
- Low resin bleed

Applications

- Dispensable thermally conductive silicone based putty for use as thermal interface material for electronic component.

Properties	Typical Value	Unit	Test Method
Color	Light grey	-	PEN 10
Viscosity, 25°C	546,500	cP	PEN 144
Thixotropic index	3.2	-	PEN 144
Flow test, 45° incline	No flow	mm	PEN 15
Specific gravity	3.25	g/cm ³	PEN 14
Extrusion rate			
1) At 50psi	0.38	g/min	PEN 107
Flow test, 45° incline	No flow	mm	PEN 15
Thermal conductivity	5.0	W/mK	ASTM D5470
Thermal resistance	1.9	K.cm ² /W	ASTM D5470
Volume resistivity	>1.0 x 10 ¹⁴	Ohm-cm	ASTM D257
Volatile content @ 150°C	0.06	%	PEN 92
Operating temperature	-40 to 200	°C	PEN 92
Bleed test, 100°C/100hrs, blot width	≤5.0	mm	PEN 99
Flammability	V-0	-	PEN 55

* The values above are tested based on batch to batch basis. These values are not used as a basis for preparing specifications.

* PEN is referring to Penchem's standard test method; ASTM is for test reference only.

* Viscosity and thixotropic index were measured by Rheometer, MCR72, PP25/S, 0.5mm gap, 5(1/s), 25.0°C

* Extrusion rate was measured by using needle size:GA15, 10ml EFD syringe, 25.0±3°C

* Oil bleeding was measured after 24hours at 100°C, 1.0±0.05g on filter paper.

* PEN 55 – UL94 as reference test method

Guideline of Use

- 1) Wear rubber glove when handling the silicone putty.
- 2) Scoop a quantity of the silicone putty from the container using a stainless steel spatula.
- 3) Work and knead the putty around electronic part and circuit by hand.
- 4) This product may be dispensed by pneumatic dispenser or other dispensing equipment with an appropriate needle. Increasing the dispensing temperature (eg. 60°C) can ease the dispensing process. The user is responsible to determine the suitability of the product for all intended uses.
- 5) Wipe off any excess putty with a piece of dry cloth. Further cleaning of residues may be achieved by wiping with cloth wetted with isopropanol.

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Management System
ISO 9001:2015
ISO 14001:2015
IATF 16949:2016
www.tuv.com
ID 9105064144

Features

This product has 18 months of shelf life from date of manufacturing, unless otherwise specified, when stored at room temperature in the original and unopened container.

Applications

- 10ml syringe
- 30ml syringe
- 500g plastic jar

Other packaging enquiry, please contact our sales department.

Environment, Health & Safety

This product is intended for industrial use only. For more safety information, please refer to Product Safety Data Sheet (SDS).

General Information

- All right reserved. This information in this document is subjected to change without notice.

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