

### Description

TH235-2 is a dispensable non silicone based thermally conductive putty. This putty is soft, extrudable, low bleed and non-flowable. It is designed for very good thermal conduction with high electrical insulation.

### Features

- High compressible
- Dispensable
- Silicone free

### Applications

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

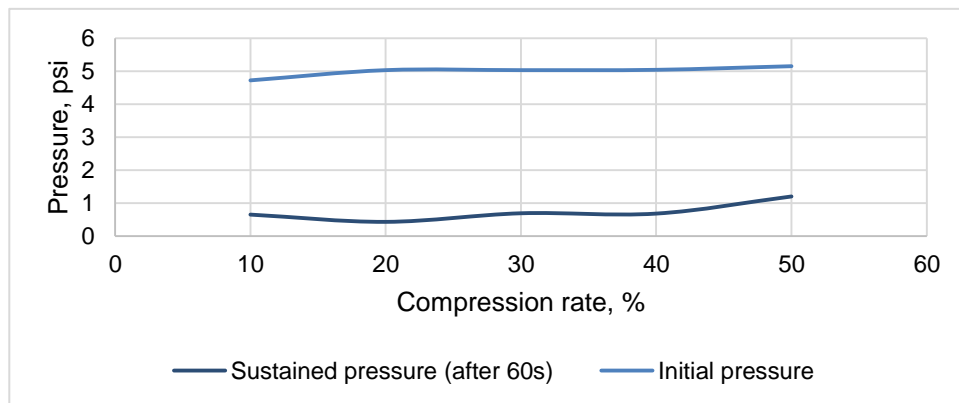
Properties	Typical Value	Unit	Test Method
Color	Light blue	-	PEN 10
Specific gravity	3.0	g/cm <sup>3</sup>	PEN 14
Viscosity, 25°C	245,000	cP	PEN 44
Extrusion rate, 2.5mm orifice, 50psi, 25°C	8.5	g/min	PEN 107
Flow test, 45° incline	No flow	mm	PEN 15
Thermal conductivity	4.0	W/m.K	ASTM D5470
Volatile content			
a) 30-150°C	0.45	%	PEN 92
Operating temperature	-40 to 120	°C	PEN 92
Flammability, UL94	V-0	-	PEN 55
Bleed test, 100°C/100hrs, blot width	45	mm	PEN 129

\* 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 was measured by CAP2000+ viscometer, CAP06, 5rpm, 25.0°C.

### Compression deflection



Compression rate (%)	Unit	10	20	30	40	50
Initial pressure	psi	4.72	5.03	5.03	5.04	5.15
Sustained pressure (after 60s)	psi	0.65	0.43	0.69	0.68	1.2

Remark: Specimen dimension- 25mm x 25mm x 1.0mm

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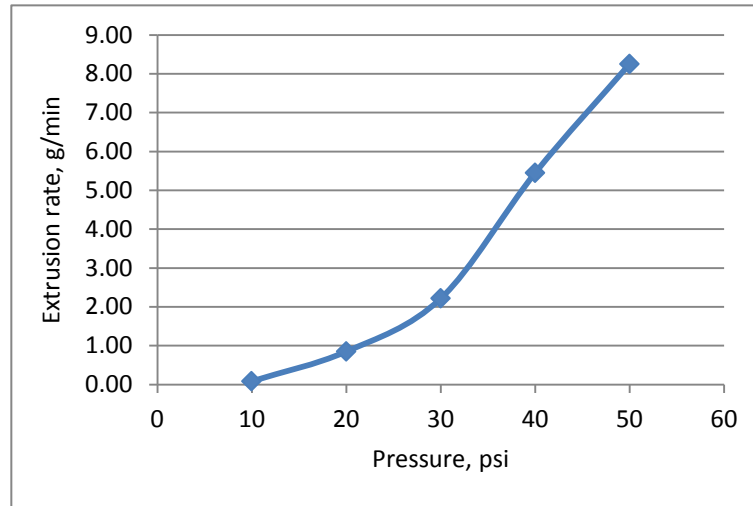
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Management System  
ISO 9001:2015  
ISO 14001:2015  
IATF 16949:2016  
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ID 9105064144

### Extrusion Rate vs Dispensing Pressure



Pressure, psi	10	20	30	40	50
Extrusion rate (g/min)	0.08	0.85	2.22	5.45	8.25

Remark: Dispensing nozzle: ID – 2.5mm

### Guideline of Use

- 1) Wear rubber glove when handling the non silicone putty.
- 2) Scoop a quantity of the non 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.

### Features

Tightly close original packaging of unused product and store at room temperature. Avoid prolong exposure to sunlight.

Shelf life: 12 months

### 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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