



PRODUCT DESCRIPTION

Tputty™ SF560 is a high-performance single component dispensable gap filler designed to offer thermal conductivity of 5.6 W/mK, along with superior thermal resistance. Its silicone-free formulation and ultra-soft properties make it suitable for all automotive applications that require low compressive forces and are sensitive to volatile silicone molecules or silicone oil bleeding.

FEATURES AND BENEFITS

- Silicone Free (SF)
- High Temperature Resistance
- Dispensable and Compliant
- Easily reworkable
- Meets RoHS and REACH requirements
- Very low fogging

APPLICATIONS

- ADAS: Cameras, Radars, Lidars, ECUs
- Automotive display & infotainment
- Semiconductors
- Power Electronics (IGBT, MOSFET)
- Consumer Electronics
- Telecommunication
- Optical Fiber

MAIN PROPERTIES

TYPICAL PROPERTIES	VALUE	TEST METHOD
Composition	Ceramic filled silicone-free dispensable gap filler	
Color	White-Gray	Visual
Thermal Conductivity	5.6 W/mK	Hot Disk
Flow rate (75cc, 90psi)	60 g/min	Laird Method
Density	3.4 g/cc	Helium pycnometer
Minimum Bond Line Thickness	0.150 mm	Laird Method
Operating Temperature Range	-40°C to 150°C	
UL Flammability Rating	V0	UL94 pending
Dielectric Breakdown Voltage	6 kV at 1mm	ASTM D149
Volume Resistivity	4×10^{14} ohm·cm	ASTM D257
Fogging (100°C/3h)	99%	ISO6452/2021
Outgassing TML / CVCM	0.03% / 0.01%	ASTM E595
Shelf life	6 months	Laird Method

Data for design engineer guidance only; observed performance varies in application. CTE variation is to be taken into consideration. Engineers are reminded to evaluate the material in application.

PACKAGING

TYPE	FILL VOLUME	FILL WEIGHT
30cc syringe	30cc	101g
75cc plastic cartridge	56cc	190g
180cc plastic cartridge	159cc	537g
360cc plastic cartridge	326cc	1100g
600cc plastic cartridge	601cc	2028g
1 gallon steel pail	3820cc	13kg
5 gallon HDPE pail	5880cc	20kg

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THR-DS-Tputty™ SF560

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