

SILCOTHERM®

THE SE3000 SERIES - the next generation of Thermally Conductive Potting Compounds

SILCOTHERM® SE3000 is the first in a new line of thermally conductive potting compounds developed by ACC Silicones Europe. These new compounds are simple 1 to 1 mix ratio silicones that cure at ambient room temperature and can also be accelerated with heat.

Key novel characteristics include:

- Low viscosity with excellent flowability
- Low volatility
- UL94-V0 flame retardancy
- Moderately soft flexible rubbers when cured
- Easy 1:1 mix ratios
- Moderate to high thermal conductivity
- High working temperature resistance

Key Benefits

- Reduced risk of air pockets resulting in poor heat dissipation
- Improved thermal performance
- Reduced contamination by unwanted by-products
- Compatible with very sensitive electronic components
- Reduced thermal stress on components
- Reduced processing machine wear

SILCOTHERM® SE3000 Technical Data

Properties before cure

Ratio A : B by weight / volume	1 : 1
Appearance A part	Light grey liquid
Appearance B part	Orange liquid
Mixed viscosity	1950 mPa.s
SG A Part	2.20
SG B Part	2.20
Pot life at 23°C	50 minutes

Cure Characteristics

Temperature	Cure for 8mm
23°C	240 minutes
50°C	30 minutes
100°C	6 minutes

Mechanical Properties after 30 minutes at 50°C

Hardness	40 Shore A
Tensile Strength	0.81 Mpa
Elongation	30%
Youngs Modulus	4.98 Mpa
CTE, Linear	134 ppm
CTE Volumetric	402 ppm
Volatile Content	70 ppm

Thermal Data

Thermal Conductivity, Guarded Hot Plate (calculated)	1.20 W/mK
Thermal Conductivity, Lees Disc (measured)	1.17 W/mK
Minimum working temperature	-70°C
Maximum working temperature	250°C

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