



FISi/ SI 270 Encapsulant

FEATURES & BENEFITS

- 100% Solids / Solvent free
- Exceptionally fast cure
- Convenient 1:1 mix ratio
- No corrosive by-products
- Environmentally friendly
- Low shrinkage
- Virtually no exotherm
- No post-cure required
- Toughened for improved mechanical strength

APPLICATIONS

- Automotive ECUs
- Outdoor junction boxes
- Semiconductor modules
- “Clam-shell” enclosures
- Cable splicing units
- Electronic potting

AVAILABILITY

- 55-Gallon Drums
- 5-Gallon Pails
- 600 ml Side-by-side cartridges

STORAGE / SHELF LIFE

SI270 may be stored in original, unopened containers at, or below, 75F for up to one (1) year.

DESCRIPTION

FISi/ SI270 is a black, two-component, silicone-based potting and encapsulating compound with good flowability, long work-life, flexible cure schedule and flame resistance.

TYPICAL PROPERTIES

Physical Property	Test Method	Performance Range
Appearance (mixed)	Visual	Charcoal liquid
Mix Ratio		1:1 By Volume (1:1 By Weight)
Viscosity (Mixed)	Brookfield	2000-3000 cps
Specific Gravity		1.35
Worklife @ 25C		15 -30 minutes
Cure Time @ 25C		3-4 hours
Shore Hardness	ASTM D 2240	50 Shore A
Service Temperature		-40C to 205C (-40F to 400F)
Fire Resistance	UI 94 – V0	Pending
Thermal Conductivity	ASTM E 1530	0.35 W/m-K
Dielectric Constant	ASTM D150	3.03 @100 Hz 2.98 @ 100 kHz
Dissipation Factor	ASTM D 150	0.015 @100Hz 0.0075 @100 kHz
Dielectric Strength	ASTM D149	350 V/mil

ADDITIONAL INFORMATION

- Refer to Technical Bulletins for additional mixing, curing and handling procedures.
- As with any platinum-catalyzed silicone gel, the cure may be inhibited. Always check compatibility. Refer to Technical Bulletin for information.
Not recommended for surfaces that are to be painted.

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