

EN Technical Data Sheet

Bectron[®]
SA 75L7-70

Electronic 1 Part Neutral Cure Silicone Adhesive

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Areas of application

Bectron® SA 75L7-70 has a complete neutral mechanism of curing that make it ideal for applications where non corrosive properties are needed together with primerless adhesion, high temperature resistance and good thermoconductivity.

Processing methods

Pre-treatment: Parts to be treated should be clean dry and free from grease.

Application: Bectron® SA 75L7-70 can be applied manually or using automatic dosing systems.

Curing: Rate of curing strongly depend on time needed to the product to reach the curing temperature. The table below shows indicative numbers obtained in a ventilated oven with specimens of 8mm thickness:

Oven Temperature (°C)	Curing Time (minutes)
100	25
150	12
175	4

Post cure at 120°C – 150°C for 1-2 hours will improve adhesion.

Description

Bectron® SA 75L7-70 is a self-bonding 1-part addition cure silicone that will polymerize to a silicone elastomer when exposed to temperatures over 100°C. It provides superior dielectric properties in a very wide temperature range, from -50°C up to 250°C. It also shows excellent adhesion to most common substrates used in the electronic industry providing at the same time a good thermoconductivity.

Key properties:

- Fast cure at high temperatures
- Good dielectric properties
- Very good thermoconductivity
- Good adhesion to many substrates
- Temperature resistance from -50°C up to 250°C

Storage and stability

Product should be stored in its original sealed container to avoid any potential contamination at a temperature below 15°C.

Store accordingly to any specific instruction listed on the product label.

Product should be used prior to the expiring date marked on the label.

Handling precautions

The system is RoHS compliant. Refer to the safety data sheet and comply with local regulations relating to industrial health and waste disposal.

PRODUCT SPECIFICATIONS

Property	Conditions	Method	Value	Units
Viscosity	23°C	Brookfield, Spindle 6 / Speed 10	25000 ÷ 80000	mPas
Hardness	23°C	DIN 53505	60 ÷ 75	Shore A
Specific Gravity	23°C	DIN 53217	1.80 ÷ 2.00	g/ml

TYPICAL PRODUCT CHARACTERISTICS

Property	Value
Colour	Grey
Shelf Life [months]	6

TYPICAL MECHANICAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Tensile Strength [MPa]	3.10
Elongation at Break [%]	70

TYPICAL THERMAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Thermal Conductivity [W/mK]	1.38

TYPICAL DIELECTRIC PROPERTIES OF THE CURED PRODUCT

Test (23°C)	Value
Dielectric Constant 50 Hz	6.0
Volume Resistivity [$\Omega \cdot \text{cm}$]	7.7×10^{15}
Dielectric Strength [KV/mm]	22.50

Our advice given verbally or in writing is based on the present state of our technical knowledge, but is intended as information given without obligation, also with respect to any protective rights held by third parties. It does not relieve your own responsibility to check the products for their suitability to the purposes and processes intended and in accordance with the technical sheets of the products. The application usage and processing of the product are beyond our control and will completely fall into the scope of responsibility of buyers and users. Should there nevertheless be a case of liability from our side, this will be limited to any damage equivalent to the value of the merchandise delivered by us. Naturally, we assume responsibility for the unobjectionable quality of our products, as defined in our general terms and condition.