ELANTAS
Electrical Insulation

EN

Technical Data Sheet

Bectron®

SA 70P1-30

Electronic 1 Part Neutral Cure
High Performance Silicone Adhesive

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Area of application

Assembly and Insulation of electrical parts and equipment, sealing and bonding of corrosion sensitive devices.

Processing methods

Pre-treatment: Parts to be sealed should be clean dry and free from grease.
Bectron® SA 70P1-30 can be applied manually or using automatic dosing systems.

Description

Bectron® SA 70P1-30 is a 1-part condensation cure products (Alkoxy), thixotropic, non-corrosive when in contact with sensitive electronic parts and substrates. It also provides very good dielectric properties and has excellent adhesion to most common substrates used in the electronic industry.
It is an ideal option for many electronic and lighting applications where high performance is a must.

Key Properties:

- Neutral cure
- Good dielectric properties
- Thixotropic
- Good adhesion to many substrates
- Temperature resistance from –55°C up to 200°C

Curing

Following exposure to atmospheric moisture the product will start to cure to a durable silicone elastomer. Full cure will depend on the relative humidity and ambient temperature. At 25°C and 55% Relative Humidity a 3mm section will normally cure in less than 24 hours. Full bond strength and physical properties will be achieved after 5 days. Cure time depends on the thickness of the adhesive applied and shape of the surface exposed to the atmosphere.
It is recommended that a minimum thickness of 1 mm is achieved between parts to obtain best adhesion to substrates

Storage and stability

Product should be stored in its original sealed container to avoid any potential contamination at a temperature below 35°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 product is RoHS compliant. Refer to the safety data sheet and comply with local regulations relating to industrial health and waste disposal

SYSTEM SPECIFICATIONS

Property	Conditions	Method	Value	Units
Appearence	23°C	Visual	Translucent thixotropic paste free from visible impurities	---
Hardness	23°C	DIN 53505	25 ÷ 35	Shore A
Specific Gravity	23°C	DIN 53217	1.08 ÷ 1.13	g/ml

TYPICAL PRODUCT CHARACTERISTICS

Property		Value
Colour		Translucent
Viscosity [mPas]		Thixotropic Paste
Tack Free Time [min]		10*
Cure Time [hours]	3mm thickness	36*
Shelf Life [months]		12

* measured at 23°C and 55% relative humidity.

TYPICAL MECHANICAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Tensile Strength [MPa]	2.43
Elongation at Break [%]	545

TYPICAL THERMAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Thermal Conductivity [W/mK]	0.20

TYPICAL DIELECTRIC PROPERTIES OF THE CURED PRODUCT

Test	Value
Dielectric Constant 50 Hz, 10000 Hz	2.9
Dielectric Dissipation 50 Hz	0.0025
Volume Resistivity [Ω • cm]	$2.1*10^{15}$
Dielectric Strength [KV/mm]	18

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