EN

Technical Data Sheet

Bectron®

SA 70L1-30

Electronic Silicone Adhesive - 1 Part - Neutral cure
High performance Silicon Adhesive

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Description

The Bectron® SA 70L1-30 is a 1-part condensation cure products (Alkoxy), 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
- Self levelling
- Good adhesion to many substrates
- Temperature resistance from -55°C up to 200°C

Areas of application

Assembly and Insulation of electronical and 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. This product can be applied manually or using automatic dosing systems.

Curing/Post-curing

Following exposure to atmospheric moisture the product will start to cure to a durable silicone elastomer. Skin formation is depending of temperature and should be <80% humidity . At room temperature and 50% humidity the Skin formation will need about 15min. At 25°C and 55% relative humidity a 3 mm 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

Products should be stored in their original sealed containers to avoid any potential contamination at a temperature between 5°C to 35°C. Store accordingly to any specific instruction listed on the product label. Products should be used prior to the expiring date marked on the label.

Handling precautions

Refer to the safety data sheet and comply with regulations relating to industrial health and waste disposal.

System specification

Properties	Conditions	Test Method	Value	M/U
Appearance		Visual method	Translucent medium viscosity liquid free from visible impurities	
Density	23°C °C	ISO 2811-1 (Internal Test S12)	1,03 ÷ 1,13	g/cm³

Typical product characteristics

Properties	Conditions	Test Method	Value	M/U
Colour		--	Translucent	
Cure Time	3 mm - 23 °C - 55 %	--	< 24	hrs
Shelf life	5°C to 35°C	Internal Test	12	months
Viscosity	23 °C	DIN 53019 (Internal Test V18/b/c)	44000	mPa·s

Typical mechanical properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Tack Free Time	23 °C - 55 %	Internal Test H22	2 ÷ 10	min
Tensile Strength	23 °C	ISO 37 (Internal Test 29)	0,8 ÷ 1,0	N/mm²
Hardness Shore A/1	23 °C	ISO 868 (Internal Test M30b)	30	Shore A

Typical thermal properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Thermal Conductivity		--	0,2	W/(m·K)

Typical dielectric properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Volume resistivity	23 °C - After 7d water immersion	IEC 60464 -2 (Internal Test M5)	2×10^{14}	Ω·cm
Comparative tracking index (CTI)	6 mm, test solution C	IEC 60112 (Internal Test M26)	>600	V

Typical chemical properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Water Absorption	24 h / 23 °C	DIN EN ISO 62 (Internal Test M09a/b)	0,01 ÷ 0,03	%
	0,5 h /100 °C		0,09 ÷ 0,13	%

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