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Technical Data Sheet

Bectron[®]

SA 70L1-30

Electronic Silicone Adhesive - 1 Part - Neutral cure
High performance Silicone 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. Full cure will depend on the relative humidity and ambient temperature. 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

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

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	
Specific Gravity	23 °C	DIN 53217	1.03-1.09	g/ml

Typical product characteristics

Properties	Conditions	Test Method	Value	M/U
Colour		--	Translucent	
Shelf life		--	12	months
Cure Time	3 mm - 23 °C - 55 %	--	< 24	hrs
Viscosity	23 °C	--	44000	mPa·s

Typical mechanical properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Hardness	23 °C	DIN 53505	30	Shore A/1
Tack Free Time	23 °C - 55 %	Internal Test H22	10	min
Tensile Strength	23 °C	ISO 37 (Internal Test 29)	2,5	N/mm ²
Nominal strain at Break		ISO 37 (Internal Test 29)	400	%

Typical thermal properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Thermal Conductivity		--	0.2	W/(m·K)
UL 94 classification		IEC 60695-11-10 (internal Test M25)	HB	

Typical dielectric properties of the cured product

Properties	Conditions	Test Method	Value	M/U
Tracking Index		IEC 60112	600 M	CTI
Volume resistivity	23 °C	IEC 60464 -2 (Internal Test M5)	1×10^{15}	$\Omega \cdot \text{cm}$
Dielectric Strength	23 °C	IEC 60455-2 (Internal Test M31)	16	kV/mm
Dielectric constant at 100.000 Hz	23 °C	IEC 60250 (Internal Test M3b)	3.1	
Dielectric Dissipation at 100.000 Hz	23 °C	IEC 60464-2 (Internal Test M3b)	< 0.01	

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