ELANTAS
Electrical Insulation

EN

Technical Data Sheet

Bectron®

SK 75V2-35 / SH 79V5-35 1:1

Electronic 2 Part Silicone Potting Compound

ELANTAS Europe Sales offices:

Strada Antolini, 1
43044 Collecchio (PR)
Italy
Tel +39 0521 304777
Fax +39 0521 804410

Grossmannstrasse 105
20539 Hamburg
Germany
Tel +49 40 78946 0
Fax +49 40 78946 349

Via San Martino, 6
15028 Quattordio (AL)
Italy
Tel +39 0131 773870
Fax +39 0131 773875

Keate House
1 Scholar Green Road - Cobra Court
Manchester M32 0TR
United Kingdom
Tel +44 161 864 1689
Fax +44 161 864 6090

info.elantas.europe@altana.com
www.elantas.com/Europe

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Area of application

Bectron® SK 75V2-35 cross-linked with Elan-tron® SK 79V5-35 is specifically designed for protection of electronic parts and components against high temperatures. Possibility of accelerated cure at high temperatures allows use in mass production manufacturing lines.

Processing methods

Pre-treatment: parts and components to be potted should be clean, dry and free from grease. Compatibility between Bectron® SK 75V2-35 system and all materials to be in contact with should be checked prior to use.
All vessels, pipes and equipment used must be thoroughly cleaned because the Pt catalyst of this system may be easily poisoned by traces of Sulphur compounds, amines or tin salts. This would seriously inhibit the cross-linking reaction.

Mixing: Bectron® SK 75V2-35 and cross linker Bectron® SH 79V5-35 should be mixed at the ratio specified and stirred thoroughly immediately prior to processing. During stirring some air may be introduced in the system. Evacuation under vacuum may be needed to obtain a bubble free elastomer.

Application: Working time is about 75 minutes; viscosity will start to build up after mixing. It is recommended to prepare only the quantity of product that can be applied in this timeframe. Cure will be completed at room temperature in about 12 hours.

Recommended curing conditions:

- 12 hour at Room Temperature
- 30 minutes at 60°C

For application where dimensional precision is important it is recommended to cure at room temperature.

Description

Bectron® SK 75V2-35 when mixed with
Bectron® SH 79V5-35 will cure at room temperature to form a resilient elastomer in about 12 hours. Cure can be accelerated with heat. Elasticity and dielectric properties of the final gel remain largely stable in a wide range of temperatures, between -50°C and +180°C. A 1:1 mixing ratio allows easy and safe processing of the system.

Key Properties:

- Addition cure system
- Curing at Room Temperature
- Long working time
- Cure can be accelerated with heat
- Long term thermal resistance
- Elasticity
- Low hardness

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	Bectron® SK 75V2-35	Bectron® SH 79V5-35	Units
Viscosity	25°C	DIN 53019	950 ÷ 1450	700 ÷ 1100	mPas
Specific Gravity	20°C	ISO 2811-2	1.36 ÷ 1.46	1,30 ÷ 1,40	g/ml
Gel time	40°C	H 17 B1	20 ÷ 30		min

TYPICAL PRODUCTS CHARACTERISTICS

Property	Bectron® SK 75V2-35	Bectron® SH 79V5-35
Colour	Beige	Blue
Viscosity at 25°C [mPas]	1200	900
Spec. gravity 20°C [g/cm^3]	1.41	1.35
Shelf Life	12 months	12 months

TYPICAL MIXTURE CHARACTERISTICS

Mixing Ratio (parts by weight)	1:1
Viscosity of mixture @ 25°C [mPas]	1050
Working Time at Room Temperature [min]	75

TYPICAL THERMAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Thermal Conductivity [W/m.K]	0.38
UL 94 classification	V1

TYPICAL MECHANICAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Specific Gravity @ 20°C [g/cm^3]	1.38
Hardness [Shore A]	35
Water Absorption [mg] 24h at RT	1.4

TYPICAL DIELECTRIC PROPERTIES OF THE CURED PRODUCT

Test	Value
Dielectric Strength [KV/mm]	14
Dielectric Constant at 20 °C/50, 1000, 10000Hz	3.3
Volume Resistivity [Ω • cm]	1.7 x 10^{15}
Volume Resistivity [Ω • cm] after 7 days in water at 23°C	1.4 x 10^{15}

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 conditions.