ELANTAS
Electrical Insulation

EN

Technical Data Sheet

Bectron®

SK 76V2-75 / SH 79V5-75 100/2.5

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 76V2-75 system is successfully used for casting coil heads and other components subject to thermal shock.
Additionally, Bectron® SK 76V2-75 is generally suited as a protection for electronic components and circuits such as high-performance semi-conductors and high load resistors.

Processing methods

Pre-treatment: surfaces of components to be treated should be clean, dry and free from grease.

Mixing: Thoroughly mix Bectron® SK 76V2-75 before use, as filler separation may occur upon prolonged storage. Weigh 100 parts of Bectron® SK 76V2-75 and 2.5 parts of Bectron® SH 79V5-75 in a clean container. Mix together until the curing agent is completely dispersed in the base. Hand or mechanical mixing can be used. During stirring some air can be incorporated and it is recommended to leave the mix to rest for about five minutes before use in order to allow evacuation of the air bubbles.

Application: Working time is about 20 minutes and viscosity will start to build up quickly after mixing. It is recommended to prepare only the quantity of product that can be applied in this timeframe.
Curing product should not be exposed to thermal stress before cure is completed. Cure will be completed at room temperature in about 6 hours.

Description

The cross-linking reaction is a condensation and it will not suffer inhibition as addition cure systems.
Elasticity and dielectric properties of the final rubber remain largely stable in a wide range of temperatures, between -40°C and +180°C.

Key Properties:

- Condensation cure system
- Curing at room temperature
- Good thermal conductivity
- Long term thermal resistance
- Elasticity
- Classified UL 94 V1

Storage and stability

Products should be stored in their original sealed containers to avoid any potential contamination at a temperature below 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

The system 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 76V2-75	Bectron® SH 79V5-75	Units
Viscosity	25°C	DIN 53019	6500 ÷ 8500	NA	mPas
Specific gravity	20°C	EN/DIN/ISO 2811-1	1.51 ÷ 1.61	0.99 ÷ 1.05	g/ml

TYPICAL SYSTEM CHARACTERISTICS

Property	Bectron® SK 76V2-75	Bectron® SH 79V5-75
Colour	Beige	Blue
Viscosity at 25°C [mPas]	7500	3
Shelf Life	12 months	12 months

TYPICAL CHARACTERISTICS OF THE MIX

Mixing Ratio (parts by weight)	100/2.5
Viscosity of mixture @ 25°C [mPas]	7500
Working Time at Room Temperature [min]	20

TYPICAL MECHANICAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Specific Gravity @ 20°C [g/cm^3]	1.56
Hardness [Shore A]	75

TYPICAL THERMAL PROPERTIES OF THE CURED PRODUCT

Test	Value
Thermal Conductivity [W/m*K]	0.42
UL 94 classification	V1

TYPICAL DIELECTRIC PROPERTIES OF THE CURED PRODUCT

Test	Value
Dielectric Strength [KV/mm]	<30
Dielectric Constant at 20 °C/50 Hz	4.2

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