

Description **BLUESIL™ V-207** is a clear, two component, addition cure, heat curing silicone rubber compound. It is designed as a primerless coating and encapsulating material.
Kit Matching: Many Elkem Silicones Aerospace and Industrial products are kit matched when manufactured. These products should be processed using the specific matched Part A and Part B units supplied with the kit. Using a different lot of Part A or Part B may affect the properties of the product.

- Examples of applications**
- Encapsulant for active hybrid circuits
 - Sealing integrated circuits
 - Protective coating for electrical and optical devices where high flexibility is required

Key benefits Please consult your local ELKEM SILICONES sales office.

Typical properties

TYPICAL PROPERTIES - AS SUPPLIED	
Part A - Base Component	
Color	Clear
Consistency	Pourable
Viscosity, cP. (mPa.s)	5,500
Part B – Catalyst Component	
Color	Clear
Specific Gravity	1.0

TYPICAL CATALYZED PROPERTIES	Mixed at 24°C (75°F) and 50% R.H.
Mix Ratio, A:B (Parts by weight)	10:1
Viscosity, cP. (mPa.s)	6,000
Pot Life, hours ⁽¹⁾	>18

TYPICAL PROPERTIES OF CURED RUBBER, Cured one hour at 150°C (300°F)		
Property	Test Method	Value
Color	ASTM D2240	Clear
Specific Gravity	ASTM D2240	1.02
Hardness, Shore A	ASTM D2240	30
Refractive Index	ASTM D2240	1.43
CURE SCHEDULES		
	Thin Sections:	Thick Sections:

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	10 minutes at 100°C (212°F) or	15 minutes at 100°C (212°F) or
	3 minutes at 125°C (257°F) or	10 minutes at 125°C (257°F) or
	2 minutes at 150°C (302°F)	5 minutes at 150°C (302°F)

TYPICAL ELECTRICAL PROPERTIES		
Property	Test Method	Value
Dielectric Constant, 1kHz	ASTM D150	3.0
Dielectric Strength, 75mil, 0.190 mm V/mil (kV/mm)	ASTM D150	500 (19.8)
Dissipation Factor, 1 kHz	ASTM D150	0.001
Volume Resistivity, ohm cm	ASTM D257	2×10^{14}
Temperature Range, °C (°F)		-54 to 204 (-65 to 400)

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use

1. Mix Part A and Part B components according to recommended weight ratios. If power equipment is to be used, it is generally recommended to keep mixing speed at or below 350 rpm to prevent heat buildup, which can cause loss of working time and premature curing of the rubber. It is recommended that the container be filled to not more than 1/3 the container height to allow sufficient room for expansion during the deaeration procedure.
2. For these products requiring deaeration, place mixed material in a vacuum chamber and exert 29 inches Vacuum on the material. Some products will require that the vacuum be interrupted or "bumped" several times before the material crests and falls by itself. After the material has receded, keep the mixed material under full vacuum for a minimum of 15 minutes. Bleed air slowly into the chamber until atmospheric equilibrium is reached. Remove mixed and vacuumed material from the chamber. The material is now ready for pouring.
3. Some Bluestar Silicones Aerospace and Industrial products have a very long mixed pot life. Storing the mixture in a tightly sealed container at 0°F (-18°C) may extend the pot life even longer. Care should be taken when using this method to prevent moisture from condensing on the inside of cold containers and contaminating the mixture.

Regulation

Please consult your local ELKEM SILICONES sales office.

Limitations

Please consult your local ELKEM SILICONES sales office.

Packaging

- BLUESIL V-207 A/B KIT is available in
 - Box of 5.5 KG (12.13 LB)

Storage and shelf life

When stored in its original packaging:
BLUESIL V-207 A/B KIT may be stored for up to 24 months from its date of manufacturing.

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Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of:
BLUESIL V-207 A/B KIT

Visit our website www.silicones.elkem.com

Warning to the users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ELKEM SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and ELKEM SILICONES is at their disposal to supply any additional information.