

MED-4211

Low consistency silicone elastomer

DESCRIPTION

- A two-part, translucent pourable silicone system
- Cures with heat via addition-cure chemistry
- 10:1 Mix Ratio (Part A: Part B)

APPLICATION

- For use in potting, encapsulating, coating, and injection or transfer molding applications

NuSil™ MED-4211 may be considered for use in human implantation for a period of greater than 29 days.

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Translucent	ASTM D2090	002
Viscosity, Part A	105,000 cP (105,000 mPas)	ASTM D1084, D2196	001
Viscosity, Part B	1,500 cP (1,500 mPas)	ASTM D1084, D2196	001
Cured: 3 minutes at 150°C (302°F)			
Post-Cured: 1 hour at 150°C (302°F). Stabilize for 3 hours at ambient temperature and humidity			
Specific Gravity	1.10	ASTM D792	003
Durometer, Type A	25	ASTM D2240	006
Tensile Strength	685 psi (4.7 MPa)	ASTM D412	007
Elongation	530%	ASTM D412	007
Tissue Culture (Cytotoxicity Testing)	Pass	USP <87> ISO 10993-5	061
Elemental Analysis of Trace Metals	Pass	ASTM E305	131

BIOMATERIALS
IMPLANT LINE**INSTRUCTIONS FOR USE****Mixing**

Combine Part A and Part B in a 10:1 mix ratio prior to use. Airless mixing, metering or dispensing equipment is recommended for production operations. If mixing by hand, take care to minimize air entrapment.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a suitable container of at least four times the volume of material being de-aired. Hold vacuum until bulk deaeration is complete.

Cure Inhibition

Curing may be inhibited by traces of amines, sulfur, nitrogen oxide, organotin compounds, and carbon monoxide. Because organic rubbers often contain these substances, they should not come in contact with the uncured elastomer. Catalyst residues from silicone RTV elastomers and peroxide-cured silicone elastomers may also inhibit the cure.

Packaging

37 mL Side-by-Side Kit
250 mL Side-by-Side Kit
1 Pint Kit (505 g)
1 Gallon Kit (4.04 kg)
5 Gallon Kit (20.2 kg)

Warranty

12 Months

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.