



MED-5860

Liquid silicone rubber

DESCRIPTION

- Two-part, translucent silicone system designed for use with injection molding equipment
- Rapid cure with no post-cure required
- 1:1 Mix Ratio (Part A: Part B)

APPLICATION

- For the injection molding of parts requiring a material with a high durometer including: molded rubber stoppers, gaskets, seals, valves, o-rings and other precision parts
- Suitable for over-molding applications
- Can be used with NuSil's Healthcare color masterbatches for applications requiring colored silicones

NuSil™ MED-5860 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
Extrusion Rate**, Part A	80 g/min	ASTM C603	033
Extrusion Rate**, Part B	65 g/min	ASTM C603	033
Work Time	> 72 hours	-	008
Cured: 5 minutes at 165°C (329°F)			
Specific Gravity	1.14	ASTM D792	003
Durometer, Type A	60	ASTM D2240	006
Tensile Strength	1,300 psi (9.0 MPa)	ASTM D412	007
Elongation	425%	ASTM D412	007
Tear Strength	200 ppi (35.2 kN/m)	ASTM D624	009
Stress at 200% Strain	700 psi (4.8 MPa)	ASTM D412	007





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Typical Properties	Average Result	Standard	NT-TM
Tissue Culture (Cytotoxicity Testing)	Pass	USP <87>	061
		ISO 10993-5	

The above properties are tested on a lot-to-lot basis. Do not use as a basis for preparing specifications. Please <u>contact</u> NuSil Technology for assistance and recommendations in establishing particular specifications.

** Performed using a Semco model 250-A pneumatic gun with a 1/8" nozzle orifice and 90 +/- 5 psi air pressure.

INSTRUCTIONS FOR USE

Mixing

Combine Part A and Part B in a 1:1 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.

Substrate Considerations

Cures in contact with most materials common to biomedical assemblies, exceptions include: sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

Vulcanization

Curing of the blended elastomer is accelerated by heat. The pre-measured catalyst provides a fixed cure rate. Do not attempt to change molding times by mixing the two components in any other than a 1:1 ratio, as this will affect the properties of the elastomer. Only temperature adjustments should be employed to alter the rate of cure.

Note: Some bonding applications may require the use of a primer. NuSil Technology's MED1-161 is suggested. For more information on primer selection, visit <u>www.nusil.com</u> and review <u>Choosing a Silicone Primer/Adhesive System</u>.

FDA MASTER FILE

A Master File for MED-5860 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master File must <u>contact</u> NuSil Technology.

Packaging	Wai
10 Gallon Kit (36.4 kg) 2 Drum Kit (360 kg)	12 M

REACH COMPLIANCE

Please <u>contact</u> NuSil Technology's Regulatory Compliance department with any questions or for further assistance.

SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please <u>contact</u> NuSil Technology for assistance and recommendations in establishing particular specifications.

WARRANTY INFORMATION

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