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UK & Ireland Distributor



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MED-6215

Optically Clear Silicone Elastomer

Product Profile

Description

- Two-part, optically clear, solvent free, low viscosity silicone
- 10:1 Mix Ratio (Part A: B)

Applications

- Use in the casting of clear silicone parts
- Use as a coating, by means of dipping or painting
- For applications requiring an operating temperature range of -65 to 240°C (-85 to 465°F)

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Transparent	-	D2090	002
Viscosity, Part A	6,000 cP	6,000 mPas	D1084, D2196	001
Viscosity, Part B	90 cP	90 mPas	D1084, D2196	001
Refractive Index, Part A	1.41	-	D1747, D1218	018
Work Time	4 hours	-	-	008
Cured: 15 minutes @ 150°C (302°F)				
Specific Gravity	1.03	-	D792	003
Durometer, Type "A"	50	-	D2240	006
Tensile Strength	1,300 psi	9.0 MPa	D412	007
Elongation	100%	-	D412	007

Instructions for Use

Mixing

Mix Part A and Part B in a 10:1 ratio by weight, taking care to minimize air entrapment during mixing.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches of Hg, to a container rated for use and at least four times the volume of material being de-aired. Hold vacuum until presence of air is no longer evident.

Substrate Considerations

MED-6215 will cure 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. Units to be encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers to be used with MED-6215 should also be clean and dry.

Note: Some bonding applications may require the use of a primer. MED1-161 silicone primer is recommended.

Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. Contact NuSil Technology for details. Some cure schedules* include:

65°C (149°F)
40 minutes

100°C (212°F)
2 minutes

* Cure time defined as the time required for a knife coat layer ~0.02" to be removed from a release liner

Packaging

250 ml SxS Kit
 1 Pint Kit (505 g)
 1 Gallon Kit (4.04 kg)
 5 Gallon Kit (20.2 kg)

Warranty

12 Months

FDA Master Access File

A Master Access File for MED-6215 has been filed with the U.S. Food and Drug Administration. Customers interested in authorization to reference the Master Access File must contact NuSil Technology.

Warnings About Product Safety

NuSil Technology believes the information and the data contained herein are accurate and reliable. However, the user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and contact NuSil Technology with any questions about product safety information.

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, obtain available product safety information and take the necessary steps to ensure safety of use.

Specifications

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

Patent Warning

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

Warranty Information

NuSil Technology's warranty period is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims any other expressed or implied warranty, including warranties of merchantability and fitness for use. The exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.