

Polymer Systems Technology Limited

UK & Ireland Distributor



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Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF
Phone +44 (0) 1494 446610
Fax: +44 (0) 1494 528611
Web: <http://www.siliconepolymers.co.uk>
Email: sales@silicone-polymers.co.uk



MED-6208-2

Black Silicone Ink

Product Profile

Description

- Two-part, solventless, addition-cure black ink
- Lower viscosity for pad and transfer printing
- 10:1 Mix Ratio (Part A: Part B)

Applications

- For use as a marking ink for silicone rubber parts and other components
- For use in pad and transfer printing applications

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Black	-	D2090	002
Viscosity	4,000 cP	4,000 mPa.s	-	124
Specific Gravity	1.09	-	D891, D1475	022
Non-Volatile Content	97%	-	D2289	004
Fineness of Grind	6.42 H	-	D1210	088

Instructions for Use

Mixing

Thoroughly stir individual components prior to addition to ensure homogeneity. Mix in a 10:1 ratio by weight or volume. Accomplish additional dilution for thin film applications by adding appropriate solvent. Some solvents may contain sulfur, which can inhibit curing. The use of low-sulfur solvents is recommended.

Curing

To obtain adequate adhesion, do not cure this material at temperatures below 150°C (302°F). Full cure is achieved in less than 30 minutes at 150°C, but for optimal adhesion, cure the silicone for 60 minutes. If shorter cure times are desired, raising the cure temperature is recommended.

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.

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.

Packaging

- 50 Gram Kit
- 100 Gram Kit
- 1 Pint Kit (505 g)
- 5 Gallon Kit (20.02 kg)

Warranty

12 Months

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.