

MED-4800 Series

Color Masterbatches for Liquid Silicone Elastomers

NuSil Technology
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An ISO 9001 Certified Company

Product Profile

Description

- A series of color masterbatches consisting of pigments dispersed in a vinyl dimethyl-terminated polydimethylsiloxane polymer
- Supported by USP Class VI biological testing, including:
 - Systemic Toxicity Study w/ Extracts
 - Intracutaneous Study w/ Extracts
 - 7 Day Muscle Implantation
 - Hemolysis Study
 - 90 Day Muscle Implantation w/ Histopathology

Applications & Benefits

- For easy and more precise pigmentation of LSR and low consistency materials, which may be injection molded
- Eliminates use of powders that may contaminate clean room environments
- Reduces production time
- Strict quality controls ensure color consistency
- Homogeneity of masterbatch minimizes agglomerates

Typical Properties	Result	ASTM	NT-TM
Appearance	-	-	-
MED-4800-1	White	D2090	002
MED-4800-2	Black	D2090	002
MED-4800-3	Red	D2090	002
MED-4800-4	Orange	D2090	002
MED-4800-5	Yellow	D2090	002
MED-4800-6	Green	D2090	002
MED-4800-7	Dark Blue	D2090	002
MED1-4800-7	Blue	D2090	002
MED50-4800-1	Translucent White	D2090	002
MED50-4800-2	Translucent Black	D2090	002
MED50-4800-3	Translucent Red	D2090	002
MED50-4800-4	Translucent Orange	D2090	002
MED50-4800-5	Translucent Yellow	D2090	002
MED50-4800-6	Translucent Green	D2090	002
MED50-4800-7	Translucent Dark Blue	D2090	002
MED51-4800-7	Translucent Blue	D2090	002
Cytotoxicity*	Pass	-	061

*Mixed and cured with NuSil Technology MED series LSR

Instructions for Use

Each of the MED-4800 color masterbatches is supplied as a single component material. Stirring the material prior to use is recommended to ensure homogeneity. Combine the masterbatch with LSR or low consistency materials by manual mixing or using a third line on an injection molding machine. Suggested concentration is 2 pph masterbatch by weight. Combine and cross-blend components until thoroughly mixed. Take the usual precautions to avoid contamination of the materials.

Packaging

50 Gram
 1 Pint (455 g)
 1 Gallon (3.64 kg)
 5 Gallon (18.2 kg)

Warranty

12 Months

Custom Colors

Custom colors, obtained through the blending of eight base colors, are available upon request. Please contact NuSil Technology for further information.

FDA Master Access File

Customers interested in referencing the Master Access Files for the MED-4800 product series must contact NuSil Technology. The biological testing performed in support of these products does not cover masterbatch concentration in excess of 4 pph.

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

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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.