

WACKER

CREATING TOMORROW'S SOLUTIONS





























ELASTOSIL®

ELASTOSIL® SILICONE RUBBER | COLOR-MIXING SCHEME

SHOW YOUR TRUE COLORS

SO COLORFUL. SO GOOD.

ELASTOSIL® Color Pastes

Color name	Similar to RAL ¹⁾	Affix	BfR ^{2) 4)}	FDA ^{3) 4)}	ISO 10993 ⁷⁾	USP Class VI ⁸⁾	Color
Standard colors							
FL Yellow	RAL 1016 ⁵⁾		●	●	●	●	
FL Red iron oxide	RAL 3013		●	●			
FL Blue	RAL 5022		●	●	●	●	
FL White	RAL 9010		●	●	●	●	
FL Deep black	RAL 9011		●	●	●	●	
Further Colors							
FL Ivory	RAL 1014			●			
FL Yellow	RAL 1006		●	●			
FL Yellow	RAL 1021 ⁵⁾		●	●			
FL Yellow	RAL 1026		●				
FL Yellow	RAL 1026 ⁶⁾	F	●	●	●	●	
FL Yellow	RAL 1033 ⁵⁾		●	●			
FL Red brown	RAL 2001		●	●			
FL Orange	RAL 2004		●				
FL Orange	RAL 2004 ⁵⁾	F	●	●	●	●	
FL Dark red	RAL 3000						
FL Red	RAL 3020 ⁵⁾		●	●			
FL Red violet	RAL 4002		●	●	●	●	
FL Ultramarine blue	RAL 5002		●	●			
FL Dark blue	RAL 5010		●	●	●	●	
FL Light blue	RAL 5015		●	●			
FL Light blue	RAL 5015	F	●	●			
FL Helio green	RAL 6004		●	●	●	●	
FL Green	RAL 6010		●	●	●	●	
FL Gray	RAL 7000		●				
FL Deep black	RAL 9005		●				
FL Black	RAL 9005	F	●	●			

The colors in the color-mixing scheme can be combined to access 80% of color space. The most commonly required colors, in particular, are easy to mix.

1) The RAL values in the table are guide figures only.

2) To meet the requirements as indicated in Title 21 of the Code of Federal Regulations (CFR) §177.2600 "Rubber Articles Intended for Repeated Use," it is important to closely observe the respective existing dosing limits and limitation on conditions of use relating to §178.3297 "Colorants for Polymers". Our technical service will be pleased to advise you.

3) FDA 21 CFR § 1 "Rubber articles intended for repeated use" (FDA = Food and Drug Administration)

4) BfR and FDA compliance is contingent on the observation of specified dosing limits. We will be glad to assist you.

5) Please consider the defined time-temperature use conditions (B-H) acc. to table 2 under 21 CFR §176.170

6) Please consider the defined time-temperature use conditions (C-H) acc. to table 2 under 21 CFR §176.170

7) Cytotoxicity, sensitization LLNA, pyrogenicity

8) Systemic/Intracutaneous toxicity, implantation test (5 days)

Conditions of Use describe the temperature conditions the colored polymer may be subject to and are described as follows:

A. High temperature heat sterilized (e.g. over 100 °C/212 °F)

B. Boiling water sterilized

C. Hot filled or pasteurized above 66 °C (150 °F)

D. Hot filled or pasteurized below 68 °C (150 °F)

E. Room temperature filled and stored (no thermal treatment in the container)

F. Refrigerated storage (no thermal treatment in the container)

G. Frozen storage (no thermal treatment in the container)

H. Frozen or refrigerated storage: Ready prepared foods intended to be reheated in the container at time of use

AUBERGINE OR CARMINE RED?



YOU SET THE TONE.
AND WE'LL DO THE REST.



ELASTOSIL® silicone rubber has always been available both in its natural color for pigmenting, and in a palette of many different colors. That palette is about to become even more nuanced than before: with a new color-mixing scheme from WACKER that will save you both time and money.

Call 80% of Color Space Your Own

We have devised a new, modular color scheme composed of 24 basic colors which can be blended together to access some 80% of all color space.

Spare Yourself Endless Testing

Not only that, but we have equipped a spectrophotometer with a software program which proposes formulations for the color values you enter. Now, from the outset, you can factor in the properties (e.g. intrinsic color) of the silicone rubber you wish to color and the conditions in which the cured elastomer will be used. Forget about laborious test series – and concentrate on producing fashionable colors faster and more reliably.

FOR NUANCED FUNCTIONALITY.



Use Our Color Lab

Pigment Pastes FL are designed for liquid silicone rubbers (ELASTOSIL® LR) but can be used for high-consistency silicone rubbers (ELASTOSIL® R) as well. For color matching of Pigment Pastes PT, please contact our technical managers.

Your Advantages At a Glance

- Quick and easy production of silicone rubber articles in any color
- Pigment pastes are highly compatible with ELASTOSIL® silicone rubber
- Pigment pastes are easy to incorporate into silicone rubber
- No adverse effect on ease of processing
- High color retention, even when exposed to heat, light and weathering
- Most pigment pastes comply with BfR and FDA as regards food-contact applications

Our Pigment Pastes Don't Just Look Good

They offer outstanding performance, too. For maximum compatibility, the pigments are prepared from exactly the same silicone polymers that are used in the silicone rubbers. They are easy to incorporate and to process, and they do not affect the cured elastomer in any other way. So, the finished silicone article keeps its color over longer periods, even under adverse conditions.

Discover the Possibilities

We can supply either the formulation and the required master pigment pastes or the ready-to-use pigment-paste blend.

Our color-mixing scheme is currently available for ELASTOSIL® LR liquid silicone rubber.



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