



WACKER

SILICONES

ELASTOSIL®

ELASTOSIL® M MOLD-
MAKING COMPOUNDS
FOR MAXIMUM PRECISION

CREATING TOMORROW'S SOLUTIONS

NOTHING IS IMPOSSIBLE.

ELASTOSIL® M mold-making compounds are ideal for a wide range of applications in the following fields:

- Prototyping
- Industrial mass production
- Restoration work
 - Art
 - Handicrafts
- Museums
 - Archaeology
 - Art
- Hobbies



A REPRODUCTION CAN ONLY BE AS GOOD AS ITS MOLD.

ELASTOSIL® M mold-making compounds are two-component, room-temperature-vulcanizing silicone rubbers (RTV-2) with excellent fidelity of reproduction. There are suitable grades for making all kinds of molds, no matter how intricate, and for use with all types of reproduction material, whether wax, plaster, concrete, casting resin or low-melting metal alloy.

Thanks to their great flexibility and outstanding release properties, ELASTOSIL® M rubbers separate very easily from the model. Their high resistance to the reproduction material means they can be used over and over again.

All these excellent processing properties make ELASTOSIL® M compounds indispensable for mold making: whether for industrial manufacturers or for artists and craftsmen.

This leaflet outlines the properties and the wide range of applications of ELASTOSIL® M mold-making compounds.

Please don't hesitate to contact our technical support team if you have specific questions concerning your application.

Call us. We'll be glad to help.



THE CHOICE IS YOURS.

Consistency/Color
of the cured rubber

Properties of
the cured rubber

ELASTOSIL®

Condensation-curing

M 1470	Kneadable, pink	Hard; high mechanical strength
M 3500	Spreadable, non-sag, translucent	Soft; extremely high extensibility
M 3502	Spreadable, non-sag, white	High extensibility and mechanical strength
M 4400	Pourable, pale yellow	Soft; high extensibility
M 4440	Pourable, beige	Moderately hard
M 4470	Pourable, reddish-brown	Hard
M 4500	Pourable, white	Very soft; very high extensibility and high mechanical strength
M 4503	Pourable, white	Soft; high extensibility and mechanical strength
M 4511	Pourable, white	Very soft; very high extensibility
M 4512	Pourable, white	Soft; very high extensibility and mechanical strength
M 4514	Pourable, white	Soft; very high extensibility and mechanical strength
M 4541	Pourable, white	Moderately hard; high extensibility and mechanical strength

Addition-curing

M 4370 A/B	Pourable, reddish-brown	Hard
M 4600 A/B	Pourable, translucent	Soft; very high extensibility and mechanical strength
M 4601 A/B	Pourable, reddish-brown	Soft; very high extensibility and mechanical strength
M 4615 A/B	Pourable, blue	Very soft; very high extensibility; high mechanical strength
M 4630 A/B	Pourable, white	Flexible; excellent mechanical strength
M 4641 A/B	Pourable, transparent	Moderately hard; high mechanical strength
M 4642 A/B	Pourable, deep red	Moderately hard; high extensibility
M 4643 A/B	Pourable, gray	Moderately hard; high mechanical strength
M 4644 A/B	Pourable, transparent	Moderately hard; high mechanical strength
M 4645 A/B	Pourable, transparent	Moderately hard; high mechanical strength
M 4647 A/B	Pourable, crystal clear	Moderately hard; high mechanical strength
M 4648 A/B	Pourable, translucent	Moderately hard; high mechanical strength
M 4670 A/B	Pourable, beige	Hard; high mechanical strength

ELASTOSIL® is a registered trademark of Wacker Chemie AG.

Special features

	General-purpose grade
and mechanical strength	For skin molds
strength	For skin molds; excellent resistance to polyester and polyurethane resins
	General-purpose grade
	General-purpose grade
	High thermostability and thermal conductivity
	High resistance to polyester resins
anical strength	General-purpose grade
and mechanical strength	Excellent resistance to polyester and polyurethane resins
mechanical strength	Excellent resistance to polyester and polyurethane resins
mechanical strength	Excellent resistance to polyester and polyurethane resins
and very high	Excellent resistance to polyester and polyurethane resins
	High thermostability and thermal conductivity
mechanical strength	General-purpose grade
mechanical strength	General-purpose grade
high mechanical strength	General-purpose grade, especially for glove molds
ength	General-purpose grade; ideal for making concrete moldings
strength	High resistance to polyurethane and epoxy resins
and v. high mech. strength	General-purpose grade
strength	High resistance to polyurethane and epoxy resins
strength; in-mold release	Excellent resistance to polyurethane and epoxy resins
strength; in-mold release	Excellent resistance to polyurethane and epoxy resins
strength	Excellent resistance to polyurethane and epoxy resins
strength	Excellent resistance to polyurethane and epoxy resins
	High resistance to polyurethane and epoxy resins

Viscosity of the ready-to-use mix	Density (DIN 53 479 A)	Hardness (DIN 53 505)	Tensile strength (DIN 53 504 S3 A)
[mPa s]	[g/cm ³]	[Shore A]	[N/mm ²]
> 1,000,000	1.28	50	4.5
> 1,000,000	1.10	20	4.0
> 1,000,000	1.24	26	4.5
25,000	1.30	23	2.0
20,000	1.22	37	2.5
10,000	1.44	60	4.5
20,000	1.20	14	3.0
40,000	1.16	25	5.0
20,000	1.22	12	3.5
25,000	1.19	20	3.5
25,000	1.25	25	4.5
30,000	1.16	32	5.0
8,000	1.43	55	3.0
15,000	1.10	20	7.0
20,000	1.13	28	6.5
5,000	1.03	13	3.0
20,000	1.13	28	6.5
30,000	1.07	43	4.5
15,000	1.14	37	7.0
25,000	1.35	48	5.0
50,000	1.07	40	5.5
35,000	1.06	40	5.0
70,000	1.02	45	4.5
15,000	1.11	36	6.0
80,000	1.34	55	5.5

Elongation at break (DIN 53 504 S3 A)	Tear resistance (ASTM D 624 B)	Linear shrinkage after 7 days
[%]	[N/mm]	[%]
230	> 10	0.2
700	> 30	0.6
450	> 23	0.4
250	> 3	0.7
200	> 3	0.4
120	> 4	0.8
450	> 15	0.6
350	> 20	0.5
600	> 18	0.4
500	> 24	0.4
450	> 25	0.4
400	> 30	0.4
130	> 4	< 0.1
800	> 20	< 0.1
700	> 30	< 0.1
700	> 10	< 0.1
700	> 30	< 0.1
300	> 28	< 0.1
550	> 30	< 0.1
300	> 10	< 0.1
400	> 28	< 0.1
330	> 28	< 0.1
250	> 10	< 0.1
400	> 20	< 0.1
300	> 12	< 0.1

Wacker Chemie AG is certified to ISO 9001 and ISO 14001. The Elastomers Business Unit of the WACKER SILICONES Business Division is certified to ISO/TS 16949-2002.

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