

Silicone pastes – Sealing, antifriction, assembly and lubricating

WACKER® Silicone Paste	P4	P12
Appearance	Colorless, opaque	White
Specific weight ca. [g/cm³]	1,02	2,25
Consistency:		
DIN ISO 2137 [1/10 mm]		
a) Unworked penetration	225	280
b) Worked penetration (60 strokes)	250	300
Solidifying point ca. [°C]	-45	-35
Dropping point ca. [°C]	None	None
Application range [°C]	-40 bis +200	-30 bis +200
Volatiles content FED-STD 791 M 321 (30 h/200 °C) [%]	2,0	0,6
Bleeding	2,5	1,2
FED-STD 791 M 321 (30 h/200 °C) [%]		
Thermal conductivity as per DIN 52 612 [W/m • K] (ca.)	0,15	0,81
Electrical loss factor tan δ 1 Hz – 10 MHz	<0,003 - max 0,0025	<0,003 - max 0,0025
Electrical resistivity at 25 °C (ca.) [Ω • cm]	10 ¹³	10 ¹³
Dielectric strength DIN 53 481: 0,05" gap between electrodes	ca. 20 kV/mm ~25 kV/0,05"	<15 kV/mm ~25 kV/0,05"
Dielectric constant ε _r ; 1 kHz – 10 MHz	2,8 - 3,1	2,8 - 3,1
Arc resistance (min.) [s]	60	
Insolubility	Water, methanol, ethanol, glycerol, glycol, mineral oils	Water, methanol, ethanol, glycerol, glycol, mineral oils
Soluble/dispersible in:	Methylene chloride, white spirit, gasoline, petroleum ether, toluene, kerosene, ethyl acetate, etc.	Methylene chloride, white spirit, gasoline, petroleum ether, toluene, kerosene, ethyl acetate, etc.

These figures are intended as a guide and should not be used for preparing specifications.

General comment:
Delivery according to our General Terms and Conditions of Sales.
As usual, no responsibility is taken for the correctness of product details provided.
Subject to technical changes.

Info Service

If you have a particular problem that you would like us to help you with then please contact us.

With our vast experience and practically unlimited technical capabilities, we are confident of being able to help you find a solution. Remember, we are a service provider and not just a supplier.

Your contact for technical matters:

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Products for
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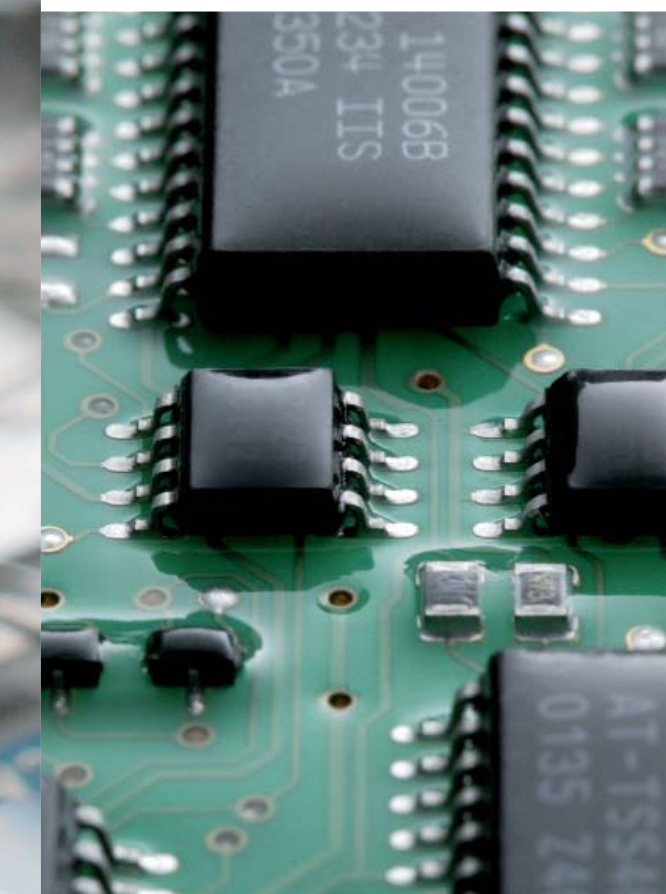
Silicone rubber compounds –
Bonding, sealing, potting
and coating

HellermannTyton

Silicone rubber compounds – Discover diversity

HellermannTyton CEE completes its wide product range around cable management systems with silicone rubber compounds by Wacker Chemie AG.

Due to its manifold and outstanding properties, industrial silicones of Wacker Chemie AG offer many application possibilities in the fields of bonding, sealing, potting/encapsulation and coating.



Product features at a glance:

- outstanding thermal resistance between -50 °C up to +180 °C
- very good bonding properties on many substrates
- outstanding weather and radiation resistance
- very good chemical resistance
- outstanding dielectrical properties, which remain almost constant over a wide range of temperature and frequency
- excellent environmental compatibility and no known harmful effects
- water-repellent surface and low absorption of humidity
- low elasticity modulus
- high degree of chemical pureness

Silicone rubber compounds – Bonding, sealing, potting and coating

Product	Features	Color	Density [g/cm ³]	Viscosity [mPa • s]	Mixing ratio	Pot life/ skin-over time [min]	Curing time	Hardness [Shore A]	Tensile strength [N/mm ²]	Elongation at break [%]	Tear resistance [N/mm]	CTE [m/mK]	Dielectric strength [kV/mm]	Dielectrical constant [ε _r]	Dielectrical loss factor	Volume resistivity [Ω • cm]	CTI	Thermal conductivity [W/m • K]	Shelf life ¹ [Months]
One-component-system, condensation-curing																			
Elastosil® A 07	Amine-curing, solvent-based compound, pourable	Translucent	1,02	9.000		10	24 h/mm 23/50% RH	20	1,1	300	4,0	3E-04	15	2,9	4E-03	1E+14		0,20	6
Elastosil® E 10	Acetic-curing, excellent heat resistance, good mechanical properties	Red	1,10	10.000		15	24 h/mm 23/50% RH	25	3,0	300	5,0	3E-04	21			1E+14		0,20	9
Elastosil® E 43	Acetic-curing, self-levelling compound	Black or transparent	1,09	350.000		15	24 h/mm 23/50% RH	30	4,5	500	13,0	3E-04	21			1E+14		0,20	12
Elastosil® E 60	Acetic-curing, pourable, very good heat resistance	Red	1,12	70.000		15	12 h/mm 23/50% RH	32	2,5	250		3E-04						0,20	9
Elastosil® E 70	Acetic-curing, pourable, excellent heat resistance	Red	1,22	75.000		18	12 h/mm 23/50% RH	40	3,5	250	7,0	3E-04						0,20	9
Elastosil® N 2010	Low-viscosity, self-levelling compound	Transparent	1,01	10.000		20	24 h/mm 23/50% RH	25	1,0	200		3E-04	21			1E+14		0,20	6
Elastosil® N 2034	Alkoxy-curing, self-levelling compound UL94 V0	Black	1,15	40.000		20	24 h/mm 23/50% RH	35	2,0	250		3E-04	21			1E+14		0,20	6
Elastosil® N 2189	Alkoxy-curing, resistant to oil, UL 94 V0	Black	1,30	Non-sag		30	24 h/mm 23/50% RH	44	2,5	250		3E-04	21			1E+14		0,20	6
Elastosil® N 2197	Alkoxy-curing, very good heat, resistance, UL94 V0	Grey	1,26	Non-sag		25	24 h/mm 23/50% RH	35	2,5	350		3E-04	21			1E+14		0,20	6
Elastosil® N 9132 S	Alkoxy-resistant, of low flammability UL94 V0	White	1,28	Non-sag		15	24 h/mm 23/50% RH	33	2,4	600		3E-04	21	3,1		1E+14	>600	0,20	9
Geniosil® N 550	Alkoxy-curing, siloxane-free, tin-free	Grey	1,30	Non-sag		25	24 h/mm 23/50% RH	55	3,0	350		3E-04				1E+14		0,20	6
Two-component-system, condensation-curing																			
Elastosil® RT K/ Wacker® Härter T77	Allround casting compound, selfadhesive on different substrates	Black	1,22	30.000	8:1 12:1	60 120	2 h/23 °C 5 h/23 °C	45	2,0	130	>3,0	3E-04	23	3,3	3E-02	1E+14	>600	0,30	12
Two-component-system, addition-curing																			
WACKER® SilGel 612	Highly transparent, self-adhesive, gel, good damping behaviour, UL94 HB	Transparent	0,96	1.000	1:1	180	8 h/23 °C 10 min/120 °C	300 ²				3E-04	23	2,7	1E-03	1E+16		0,20	12
Elastosil® RT 601	Allround casting compound, highly transparent	Transparent	1,02	3.500	9:1	90	24 h/23 °C 10 min/100 °C	45	7,0	100	3,0	3E-04	23	2,8	1E-03	1E+15	>600	0,20	12
Elastosil® RT 607	Allround casting compound, of low flammability, good heat resistance	Reddish-brown	1,43	10.000	9:1	80	24 h/23 °C 5 min/100 °C	55	3,5	100	4,0	3E-04	23	3,7	4E-02	1E+15	>600	0,40	12
Elastosil® RT 622	Allround casting compound, suitable for the production of technical shapes, very good mechanical properties	Reddish-brown	1,13	12.000	9:1	60	24 h/23 °C 10 min/100 °C	27	6,5	550	30,0	3E-04	23	3,2	5E-03	1E+15	>600	0,20	12
Elastosil® RT 745	Low viscosity Low hardness	Transparent, brownish	0,96	1.000	1:1	480	1 h/80 °C 10 min/120 °C	15	0,3	200		3E-04	23	2,9	4E-03	1E+15	>600	0,20	12
One-component-system, addition-curing																			
SEMICOSIL® 989/1K	Thermically hardening Very good bonding properties	Translucent	1,10	Non-sag			1 h/130 °C 10 min/150 °C	55	5,0	200	10,0	3E-04	23			1E+14		0,20	6

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¹ Complies with the guaranteed minimum shelf life; generally the period between the manufacturing date and the best-use-before-date is longer.

² Penetration [mm/10]

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