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WEVO  
CASTING RESINS  
SILICONE

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## PRODUCT OVERVIEW SILICONE CASTING RESINS

WEVOSIL Component A		20200 A	20001 A	28001 A	22006 FL A	22002 FL A	22003 FL A	22004 A	26001 FL A	22005 FL A	26003 FL A	26002 FL A	26005 FL A	26004 FL A	26007 FL A
WEVOSIL Component B		20200 B	20001 B	28001 B	22006 FL B	22002 FL B	22003 FL B	22004 B	26001 FL B	22005 FL B	26003 FL B	26002 FL B	26005 FL B	26004 FL B	26007 FL B
Mixing ratio (parts by weight)		1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1	1:1
Mixed viscosity at 22°C [mPa·s]	Rotational viscometer	300–700	1.000–1.500	30.000–60.000	2.000–2.800	2.500–4.000	> 70.000 thixotrop	4.000–8.000	50.000–80.000	4.000–8.000	20.000–40.000	40.000–60.000	50.000–80.000	130.000–170.000	250.000–350.000
Reactivity at 22°C [min]*		60	50–60	hot curing > 100°C	90–120	50–60	hot curing > 100°C	50–60	50–60	50–60	50–60	50–60	50–60	50–60	50–60
Density of component A at 22°C [g/cm³]	DIN EN ISO 2811-1:2016-08	0,96–1,00	0,96–1,00	1,28–1,32	1,36–1,40	1,65–1,70	2,42–2,46	2,42–2,46	2,28–2,32	2,28–2,32	2,84–2,88	2,48–2,52	2,94–2,98	2,54–2,58	3,02–3,06
Density of component B at 22°C [g/cm³]	DIN EN ISO 2811-1:2016-08	0,96–1,00	0,96–1,00	1,28–1,32	1,36–1,40	1,65–1,70	2,42–2,46	2,42–2,46	2,28–2,32	2,28–2,32	2,84–2,88	2,48–2,52	2,94–2,98	2,54–2,58	3,02–3,06
Shore-Hardness 00/A/D	DIN ISO 7619-1:2012-02	gel	-- / 35–45 / --	-- / 70–80 / --	-- / 47–55 / --	-- / 35–45 / --	75–85 / 25–35 / --	-- / 40–50 / --	50–60 / -- / --	-- / 55–65 / --	60–70 / -- / --	60–70 / -- / --	60–70 / -- / --	60–70 / -- / --	60–80 / -- / --
Operating temperature [°C]		-60 up to +180	-60 up to +180	-60 up to +200	-60 up to +180	-60 up to +180	-60 up to +200	-60 up to +200	-60 up to +180	-60 up to +180	-60 up to +200	-60 up to +165	-60 up to +200	-60 up to +165	-60 up to +200
E-Modulus [N/mm²]	DIN EN ISO 527-2:2012-06	–	1,7	7,2	4	2	1	3	0,7	6,5	0,3	0,3	0,5	0,4	1,8
Thermal conductivity [W/m·K]	DIN EN ISO 22007-2:2015-12	0,2	0,2	0,4	0,5	1,0	1,2	1,2	1,5	1,5	2,0	2,0	2,5	2,5	3,0
Glass transition temperature [°C]	TMA ISO 11359-2:1999-10	-50	-40	-55	-50	-45	-45	-55	-45	-45	-55	-45	-55	-55	-55
Coefficient of expansion [ppm/K]	TMA ISO 11359-2:1999-10	480 > -30°C	330 > -30°C	140 < -70°C 210 > -30°C	100 < -70°C 240 > -30°C	85 < -70°C 200 > -30°C	85 < -70°C 205 > -30°C	70 < -70°C 170 > -30°C	180 > -30°C	60 < -70°C 150 > -30°C	60 < -70°C 145 > -30°C	160 > -30°C	60 < -70°C 75 > -30°C	45 < -70°C 90 > -30°C	55 > -30°C
Water absorption [%]	30 days, 22°C	1,0	–	0,2	0,2	1,0	–	0,3	1,0	0,2	0,6	1,0	0,9	1,0	1,0
Flammability	UL 94	HB	HB	HB	V-0 4 mm**	V-0 2 mm	V-0 4 mm	V-1 6 mm	V-0 4 mm	V-0 2 mm	V-0 4 mm	V-0 2 mm	V-0 4 mm	V-0 1 mm	V-0 4 mm
Dielectric strength [kV/mm]	DIN EN 60243-1:2014-01	23	–	–	33	31	–	29	–	30,5 (100°C: 24,3)	–	–	19,5	18,5	> 13
Volume resistivity [Ω·cm]	DIN EN 62631-3-1:2017-01	10 <sup>14</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>11</sup>	10 <sup>10</sup>	10 <sup>12</sup>	10 <sup>12</sup>	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>11</sup>	10 <sup>10</sup>	10 <sup>14</sup>
Dielectric constant ε (at 50 Hz, 23°C)	DIN EN IEC 62631-2-1:2018-12	–	2,8	3,1	3,8	4,5	5,2	6,3	5,3	5,2	6,9	6,0	7,0	8,1	7,52
Loss factor tan δ (at 50 Hz, 23°C)	DIN EN IEC 62631-2-1:2018-12	–	0,004	0,080	0,065	0,060	0,248	0,196	0,020	0,048	0,033	0,033	0,023	0,150	0,057

All application parameters refer to processing at room temperature. All mechanical, thermal and electrical properties are based on complete curing.

\* The indicated range of pot life corresponds with current standard versions. Adjustment of pot life is possible.

\*\* UL listing under File-No E108835

For a more detailed technical description of our systems please refer to the corresponding data sheets which are available for all products.

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WEVO-CHEMIE GmbH · Schönbergstrasse 14 · 73760 Ostfildern-Kemnat · Germany  
Phone +49 711 167 61-0 · Fax +49 711 167 61-44 · [info@wevo-chemie.de](mailto:info@wevo-chemie.de) · [wevo-chemie.de](http://wevo-chemie.de)