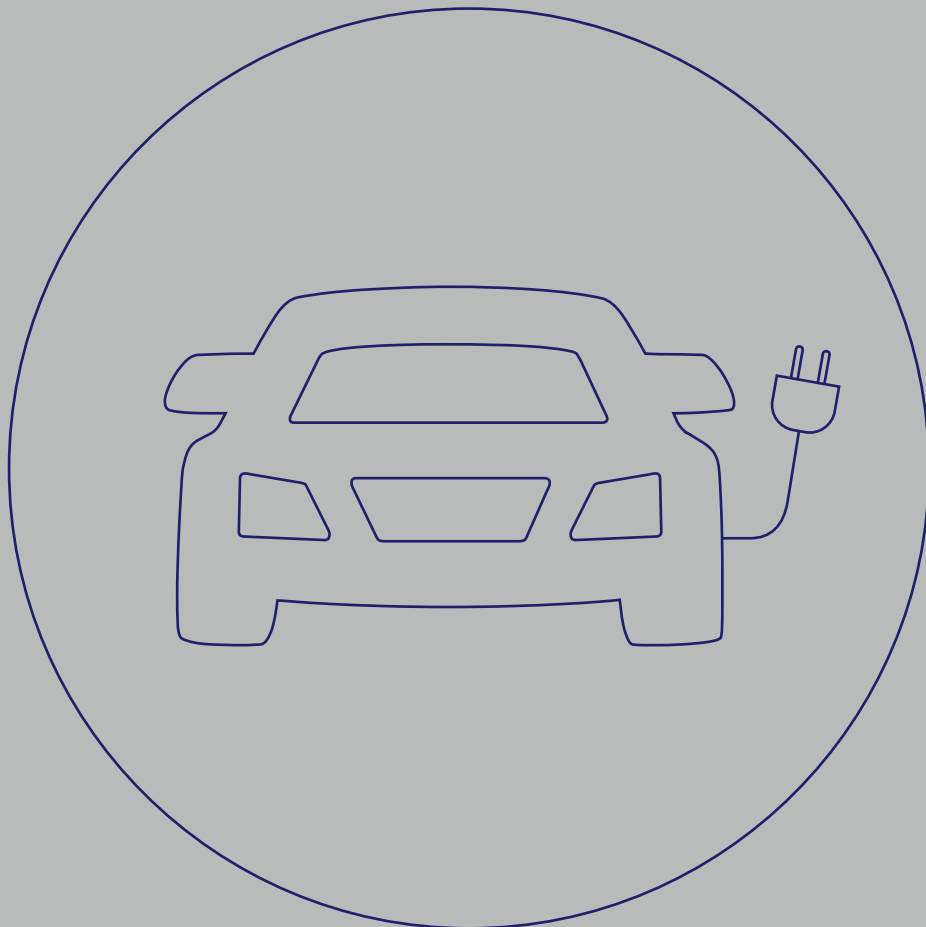




wevo

WEVO MATERIAL
SOLUTIONS
E-MOBILITY





Product name	POLYURETHANE					EPOXY			SILICONE						
Resin / component A	WEVOPUR 60910 FL	WEVOPUR 56002 FL	WEVOPUR PD 64515 FL	WEVOPUR 68517	WEVOPUR 68116	WEVOPOX 2513	WEVOPOX 36001 FL	WEVOPOX 34020	WEVOPOX 32703	WEVOPOX 32702	WEVOSIL 22006 FL	WEVOSIL 28001	WEVOSIL 22002 FL	WEVOSIL 22005 FL	WEVOSIL 26010 FL
Hardener / component B	WEVONAT 900	WEVONAT 900	WEVONAT 385	WEVONAT 600	WEVONAT 801	WEVODUR 1003/07	WEVODUR 5001	WEVODUR 5001	WEVODUR 5009	WEVODUR 5008	WEVOSIL 22006 FL	WEVOSIL 28001	WEVOSIL 22002 FL	WEVOSIL 22005 FL	WEVOSIL 26010 FL
Description	UL 94 V-0 low viscosity resin	High thermal conductive for ferrite and SMD applications	Shore A, -60°C, UL 94 V-0 potting resin	A high viscosity multi-substrate all purpose adhesive	A multi-substrate all purpose adhesive	Suitable for vacuum pressure potting	UL 94 V-0 potting resin	Cold curing, 180°C, good crack resistant resin	Hot curing, high chemical resistant adhesive	Cold curing, good chemical resistant adhesive	UL 94 V-0, general all purpose potting resin	200°C, multi substrate adhesive	UL 94 V-0, general all purpose potting resin	UL 94 V-0, general all purpose potting resin	UL 94 V-0, low density gap filler
Mixing ratio (parts by weight)	100 : 10	100 : 8	100 : 4	100 : 7	100 : 13	100 : 13	100 : 10	100 : 10	100 : 12	100 : 10	1 : 1	1 : 1	1 : 1	1 : 1	1 : 1
Mixed viscosity at 22°C [mPa·s]	2,550–5,000	10,000–15,000	55,000–65,000	100,000–125,000	10,000–20,000	3,000–6,000	3,500–6,500	8,000–15,000	5,000–8,000	2,000–3,500	2,000–2,800	30,000–60,000	2,500–4,000	4,000–8,000	150,000–200,000
Reactivity at 22°C [min]*	30–40	20–30	20–40	18–25	40–60	30 (120°C)	180–240	120	30 (120°C)	60–80	90–120	hot curing > 100°C	50–60	50–60	50–60
Shore-hardness 00/A/D	-- / -- / 35–40	-- / -- / 40–50	-- / 80–90 / --	-- / -- / 60–70	-- / -- / 80–85	-- / -- / 90–95	-- / -- / 85–90	-- / -- / 85–95	-- / -- / 80–90	-- / -- / 82–90	-- / 47–55 / --	-- / 70–80 / --	-- / 35–45 / --	-- / 55–65 / --	60–80 / -- / --
E-modulus [N/mm²]	55	40	25	535	11,300	11,000	6,000	6,100	5,000	6,200	4	7.2	2	6.5	1.2
Tensile strength [N/mm²]	2	4	1.6	8	24	81	40	54	43	57	1.3	6.3	0.6	0.9	0.3
Elongation at break [%]	28	22	43	14	0.6	0.9	1.0	3.1	1.0	1.4	90	75	50	20	25
Operating temperature [°C]	-40 up to +135	-40 up to +130	-60 up to +120	-40 up to +135	-40 up to +135	-40 up to +180	-40 up to +180	-40 up to +180	-40 up to +155	-40 up to +130	-60 up to +180	-60 up to +200	-60 up to +180	-60 up to +180	-60 up to +165
Thermal conductivity [W/m·K]	1	2.1	1.5	1.7	1.6	1.4	1.1	0.8	0.6	0.3	0.5	0.4	1.0	1.5	2.5
Glass transition temperature [°C]	-20	-31	-65	19	43	52	51	48	117	76	-50	-55	-45	-45	-55
Coefficient of expansion [ppm/K]	50 < -30°C 115 > -10°C	40 < -10°C 110 > 20°C	50 < -70°C 115 > -40°C	40 < -20°C 105 > 30°C	40 < -20°C 105 > 60°C	29 < 40°C 91 > 80°C	40 < 30°C 110 > 90°C	46 < 20°C 150 > 80°C	53 < 80°C 157 > 150°C	56 < 60°C 155 > 90°C	100 < -70°C 240 > -30°C	140 < -70°C 210 > -30°C	85 < -70°C 200 > -30°C	60 < -70°C 150 > -30°C	60 < -55°C 110 > -30°C
Flammability	V-0 3 mm**	V-0 2 mm	V-0 4 mm	HB	HB	HB	V-0 2 mm**	HB	HB	HB	V-0 4 mm**	HB	V-0 2 mm	V-0 2 mm	V-0 1 mm
Dielectric strength [kV/mm]	27	25	25	35	–	20	–	30	–	–	33	–	31	30.5 (100°C: 24,3)	> 15
Comparative tracking index	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Target application	Battery potting	Thermally conductive for power electronics	Soft thermally conductive for battery potting	Thermally conductive adhesive for battery cells	Thermally conductive adhesive for battery cells	Motor (stator) potting	Motor (linear) potting	Winding heads (stator) potting	Chemical resistant battery adhesive	Chemical resistant battery adhesive	All purpose potting	All purpose adhesive	All purpose potting	All purpose potting	Gap filler (battery) soft

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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