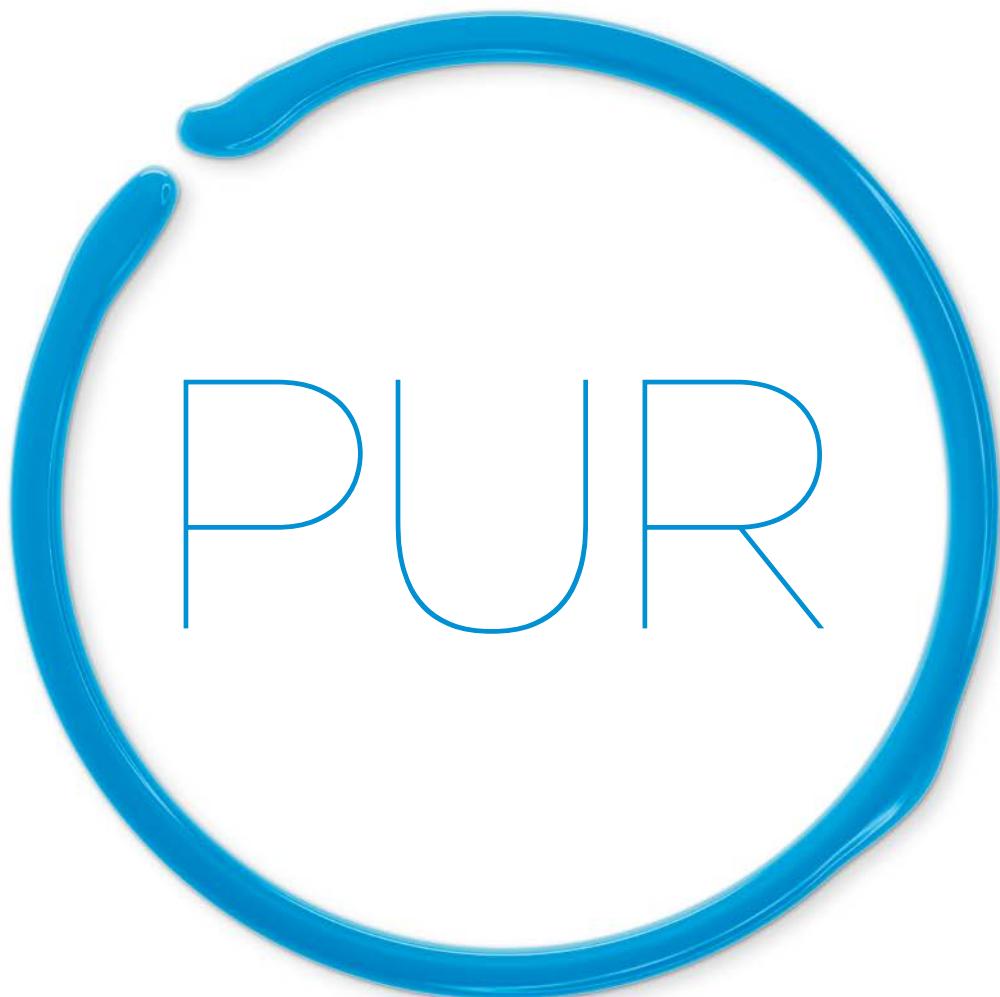
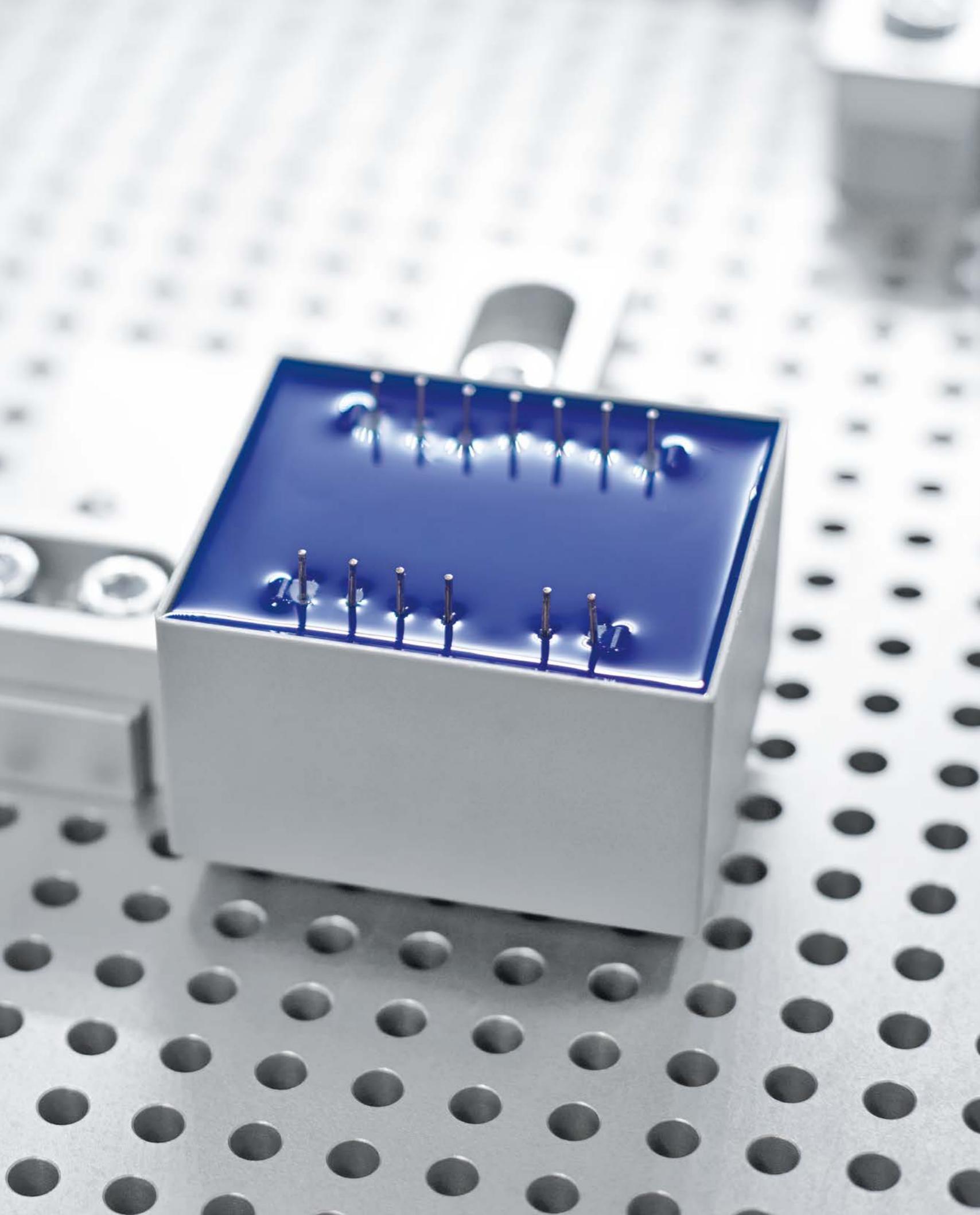


wevo

# ADVANCED POLYURETHANE SOLUTIONS

WEVOPUR FOR ELECTRICAL AND ELECTRONIC APPLICATIONS





# PUR

Our WEVOPUR products offer great versatility in terms of formulation options and the product properties that can be achieved with them.



## THERMAL CONDUCTIVITY

Thermally conductive solutions ensure better temperature control and fewer hotspots.

Thermal conductivity up to  $2 \text{ W/m}\cdot\text{K}$  · Higher power densities · Cooling of components · Use as a gap filler



## TRANSPARENCY

For applications that require transparency, we have transparent systems that protect sensitive components such as LEDs and sensors.

UV-stable · Low refractive index · Very good translucency across a wide wavelength spectrum · Weather-resistant



## FLAMMABILITY

Our products with flame-retardant properties are certified according to various test standards.

EN 45545-2 HL3 in R22/R23 · Glow Wire Flammability Index (GWFI) · UL 94 V, HB and 5V · Hot Wire Ignition (HWI) · High-current Arc Ignition (HAI)



## ELECTRICAL PROPERTIES

High dielectric strength and good dielectric properties enable their use in a very wide range of electrical applications.

Low dielectric constants for improved transmission of electromagnetic signals · Comparative Tracking Index (CTI 600) · Relative Temperature Index (RTI Elec) · High dielectric strength  $> 30 \text{ kV/mm}$



## EXTRACT FROM POLYURETHANE PRODUCTS

WEVOPUR	PD 4	PD 445	PD 52	139	3050	390	403	403 FL/33	512 FLE	552 FL	500 MT/40	923 M	58093	7210 FL	9251 FL	801 G	895	
WEVONAT	385	385	385	300	300 M	300	300	300 RE	900 E	300	300	300 M	600	507	300 RE	801	600	
Mixing ratio (parts by weight)	100:34	100:20	100:26	100:10	100:50	100:30	100:14	100:14	100:16	100:20	100:30	100:18	100:33	100:43	100:15	100:33	100:25	
Mixed viscosity at 22°C [mPa·s]	Rotational viscometer	1,200–1,600	1,800–2,200	1,200–2,000	800–1,200	1,100–1,300	800–900	2,500–3,500	1,000–1,800	900–1,400	1,000–1,300	6,000–8,000	1,700–2,300	1,600–2,200	400–600	1,300–1,800	2,000–4,000	15,000–25,000
Reactivity at 22°C [min.] <sup>*</sup>	Rotational viscometer	10–40	3–40	5–40	5–35	10–30	10–50	5–50	30–40	10–50	5–50	35–45	10–50	10–50	5–35	10–50	3–60	3–30
Density of resin at 22°C [g/cm <sup>3</sup> ]	DIN EN ISO 2811-1:2016-08	0.91–0.93	0.93–0.95	1.06–1.09	1.03–1.05	0.99–1.02	1.28–1.31	1.75–1.79	1.62–1.68	1.56–1.62	1.56–1.60	1.28–1.31	1.25–1.27	1.37–1.42	1.53–1.57	1.53–1.56	1.47–1.53	1.40–1.47
Density of hardener at 22°C [g/cm <sup>3</sup> ]	DIN EN ISO 2811-1:2016-08	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	1.20–1.24	
Shore hardness A/D	DIN ISO 7619-1:2012-02	60–75 / --	20–30 / --	70–80 / --	40–50 / --	-- / 50–60	-- / 35–45	-- / 65–75	-- / 40–50	80–85 / --	-- / 60–70	-- / 50–60	70–75 / --	-- / 60–70	-- / 80–90	-- / 30–40	-- / 80–88	-- / 45–55
Operating temperature [°C]		-60 up to +120	-60 up to +120	-60 up to +125	-40 up to +125	-40 up to +125	-40 up to +130	-50 up to +165	-50 up to +165	-40 up to +130	-40 up to +130	-40 up to +120	-40 up to +120	-40 up to +140	-40 up to +145	-40 up to +135	-40 up to +140	-30 up to +130
E modulus [N/mm <sup>2</sup> ]	DIN EN ISO 527-2:2012-06	15	2	15	–	–	15	116	110	19	55	60	10	350	5,500	20	2,900	70
Thermal conductivity [W/m·K] (pressureless)	DIN EN ISO 22007-2:2015-12	0.2	0.2	0.3	0.2	0.2	0.4	0.6	0.73	0.8	0.6	0.4	0.4	0.4	0.6	0.6	0.6	0.5
Glass transition temperature (Tg) [°C]	TMA ISO 11359-2:1999-10	-60	-65	-60	-45	36	-4	-4	-6	-7	15	25	-25	30	85	-20	40	25
Coefficient of expansion [ppm/K]	TMA ISO 11359-2:1999-10	56 < Tg 211 > Tg	80 < Tg 220 > Tg	65 < Tg 175 > Tg	66 < Tg 260 > Tg	85 < Tg 206 > Tg	79 < Tg 178 > Tg	42 < Tg 146 > Tg	42 < Tg 146 > Tg	60 < -20 150 > -5	58 < Tg 142 > Tg	90 < Tg 195 > Tg	70 < Tg 215 > Tg	60 < 20 215 > 40	54 < Tg 151 > Tg	50 < Tg 162 > Tg	76 < Tg 206 > Tg	70 < Tg 230 > Tg
Water absorption [%]	30 days, 22°C	0.2	0.2	0.5	3.5	0.4	0.3	0.7	0.6	0.3	0.4	0.5	2.3	1.1	0.3	1.3	0.5	0.6
Flammability	UL 94	HB	HB	HB	HB	HB	V-2 1.5 mm <sup>**</sup>	HB	V-0 1.6 mm <sup>**</sup>	V-0 6 mm <sup>**</sup>	V-0 1.5 mm <sup>**</sup>	HB	HB	HB	V-0 6 mm <sup>**</sup>	V-0 6 mm <sup>**</sup>	HB	HB
Dielectric strength [kV/mm]	DIN EN 60243-1:2014-01	25	20	23	22	30	32	30	30	> 25	29	28	25	> 20	34	> 20	32	35
Volume resistivity [Ω·cm]	DIN EN 62631-3-1:2017-01	10 <sup>14</sup>	10 <sup>13</sup>	10 <sup>14</sup>	10 <sup>11</sup>	–	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>13</sup>	10 <sup>14</sup>	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>14</sup>	10 <sup>12</sup>	10 <sup>16</sup>	10 <sup>14</sup>
Dielectric constant ε (at 50 Hz, 23°C)	DIN EN IEC 62631-2-1:2018-12	3.1	5.1	3.0	8.7	3.4	5.5	5.7	5.7	5.6	5.6	4.0	7.1	6.3	3.7	7.8	3.6	–
Loss factor tan δ (at 50 Hz, 23°C)	DIN EN IEC 62631-2-1:2018-12	0.014	0.020	0.080	0.347	0.033	0.140	0.040	0.040	0.146	0.117	0.070	0.060	0.093	0.010	0.090	0.021	–

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.

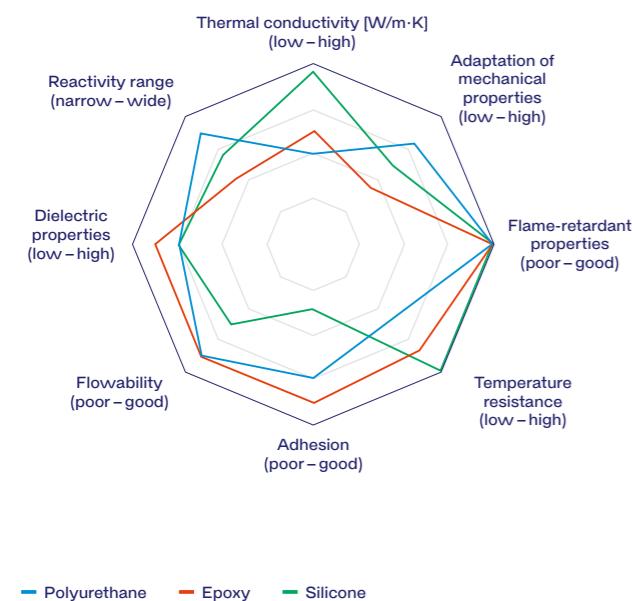
Please see our special notes on the back of this brochure.

# WEVO – TRADITION OF INNOVATION

We are a leading specialist for advanced potting compounds, adhesives and sealants based on polyurethane, epoxy and silicone. More than 80 years of experience in development and applications go into each and every one of our products. The outcome: optimum solutions for reliable and safe components.

## OUR MATERIALS AT A GLANCE

We work with customers of all sizes, from all sectors and industries. Thanks to our broad portfolio, we can find the right solution for every application.



## CERTIFICATIONS AND PRODUCT APPROVALS

Our uncompromising product quality is a direct result of adhering to strict guidelines and standards for chemical materials and their safe use.

### Company certifications



### Material certifications



### EU guidelines/regulations



# AS INDIVIDUAL AS YOU ARE

If no standard polyurethane from our portfolio fits your application, we can, on request, develop a tailor-made system together with you. From the design phase, through validation, right up to series production – we offer customer support every step along the way.



### TECHNICAL ADVICE

Joint definition of the product requirements.

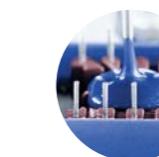
01



### PRODUCT DEVELOPMENT

Development of tailor-made solutions.

02



### SAMPLE POTTING

Testing and application support, on request in the Wevo technical centre.

03



### PRODUCTION

Accurate processing, process monitoring and quality control.

04



### LOGISTICS

Flexible logistics and customised packaging.

05



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