



**wevo**

WEVO  
CASTING RESINS  
POLYURETHANE




**PRODUCT OVERVIEW POLYURETHANE CASTING RESINS**

WEVOPUR		PD 4	PD 445	PD 52	139	3050	390	403	403FL/33	512 FL	552 FL	500 MT/40	923 M	930 M	7210 FL	9251 FL	801 G	895
WEVONAT		385	385	385	300	300 M	300	300	300 RE	900	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	600–900	1,000–1,300	6,000–8,000	1,700–2,300	1,800–2,200	400–600	1,300–1,800	2,000–4,000	15,000–25,000
Reactivity at 22°C [min]*		10–40	3–40	5–40	5–35	10–30	10–50	5–50	30–40	15–60	5–50	35–45	10–50	10–50	5–35	10–50	3–60	3–30
Density of resin at 22°C [g/cm³]	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	1.55–1.58	1.56–1.60	1.28–1.31	1.25–1.27	1.39–1.42	1.53–1.57	1.53–1.56	1.47–1.53	1.40–1.47
Density of hardener at 22°C [g/cm³]	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	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	-- / 30–40	-- / 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/mm²]	DIN EN ISO 527-2:2012-06	15	2	15	–	–	15	116	110	20	55	60	10	41	5,500	20	2,900	70
Thermal conductivity [W/m·K]	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 [°C]	TMA ISO 11359-2:1999-10	-60	-65	-60	-45	36	-4	-4	-6	-4	15	25	-25	30	85	-20	40	25
Coefficient of expansion [ppm/K]	TMA ISO 11359-2:1999-10	56 < -60°C 211 > -60°C	80 < -70°C 220 > -60°C	65 < -70°C 175 > -60°C	66 < -50°C 260 > 0°C	85 < 0°C 206 > 50°C	79 < -10°C 178 > 0°C	42 < -10°C 146 > 0°C	42 < -10°C 146 > 5°C	55 < -20°C 160 > -5°C	58 < 10°C 142 > 20°C	90 < -10°C 195 > 5°C	70 < -30°C 215 > -20°C	70 < 20°C 190 > 40°C	54 < 70°C 151 > 100°C	50 < -30°C 162 > 30°C	76 < 40°C 206 > 40°C	70 < 25°C 230 > 25°C
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	1.0	0.3	1.3	0.5	0.6
Flammability	UL 94	HB	HB	HB	HB	HB	V-2 1.5 mm**	HB	V-0 1.6 mm**	V-0 4 mm**	V-0 1.5 mm**	HB	HB	HB	V-0 6 mm**	V-0 6 mm**	HB	HB
Dielectric strength [kV/mm]	DIN EN 60243-1:2014-01	25	20	23	22	30	32	30	30	38	29	28	25	31	34	> 20	32	35
Volume resistivity [Ω·cm]	DIN EN 62631-3-1:2017-01	10 <sup>14</sup>	10 <sup>15</sup>	10 <sup>14</sup>	10 <sup>11</sup>	–	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>14</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>14</sup>	10 <sup>15</sup>	10 <sup>14</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	6.1	5.6	4.0	7.1	5.0	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	0.120	0.117	0.070	0.060	0.050	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.

The manner in which you use and the purpose to which you put and utilise our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to

your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information, in particular all technical data and assistance, is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby release us from all liability (in tort, in contract or otherwise) incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorised and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No licence is implied or in fact granted under the claims of any patent.



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)