Argen-Milled e.max | Crystallization Guidelines

Ivoclar Vivadent furnaces / *Öfen* (110 + 220 V)

Crystallization parameters / *Kristallisationsparameter* IPS e.max CAD MO /LT

Furnace *Ofen*	Closing time *Schliesszeit* S min	Stand-by temperature *Bereitschafts-temperatur* B °C / °F	Heating rate *Heizrate* t_1 °C/min / °F/min	Firing temperature *Brenn-temperatur* T_1 °C / °F	Holding time *Haltezeit* H_1 min	Heating rate *Heizrate* t_2 °C/min / °F/min	Firing temperature *Brenn-temperatur* T_2 ° C / °F	Holding time *Haltezeit* H_2 min	Longterm cooling *Langzeitabkühlung* L °C/min / °F/min	Cooling rate *Kühlrate* t_l °C/min / °F/min	Vacuum 1 *Vakuum 1* 1_1 1_2 °C / °F	Vacuum 2 *Vakuum 2* 2_1 2_2 °C / °F
P80	6:00	403 / 757	–	–	–	30 / 54	850 / 1562	10:00	700 / 1292	–	–	550 / 1022 850 / 1562
P100, P200	6:00	403 / 757	60 / 108	770 / 1418	5:00	30 / 54	850 / 1562	10:00	700 / 1292	–	550 / 1022 770 / 1418	770 / 1418 850 / 1562
P300, P500, P700	6:00	403 / 757	60 / 108	770 / 1418	5:00	30 / 54	850 / 1562	10:00	700 / 1292	20 / 36	550 / 1022 770 / 1418	770 / 1418 850 / 1562
PX1	6:00	403 /757	60 / 108	770 / 1418	5:00	30 / 54	850 / 1562	10:00	775 / 1427 1:30 min 700 / 1292 0:20 min	–	550 / 1022 770 / 1418	770 / 1418 850 / 1562
EP 600	6:00	403 / 757	60 / 108	770 / 1418	5:00	30 / 54	850 / 1562	10:00	700 / 1292	–	550 / 1022 770 / 1418	770 / 1418 850 / 1562
EP 5000	6:00	403 / 757	60 / 108	770 / 1418	5:00	30 / 54	850 / 1562	10:00	700 / 1292	20 / 36	550 / 1022 770 / 1418	770 / 1418 850 / 1562

With the Programat P100, only programs 65–69 can be used!

Speed Crystallization Glaze / *Speed Kristallisation Glanz* / IPS e.max CAD LT
IPS e.max CAD LT with / *mit* IPS e.max CAD Crystall./Glaze, Shades, Stains, Add-On

Furnace *Ofen*	Closing time *Schliesszeit* S min	Stand-by temperature *Bereitschafts-temperatur* B °C / °F	Heating rate *Heizrate* t_1 °C/min / °F/min	Firing temperature *Brenn-temperatur* T_1 °C / °F	Holding time *Haltezeit* H_1 min	Heating rate *Heizrate* t_2 °C/min / °F/min	Firing temperature *Brenn-temperatur* T_2 ° C / °F	Holding time *Haltezeit* H_2 min	Longterm cooling *Langzeitabkühlung* L °C/min / °F/min	Cooling rate *Kühlrate* t_l °C/min / °F/min	Vacuum 1 *Vakuum 1* 1_1 1_2 °C / °F	Vacuum 2 *Vakuum 2* 2_1 2_2 °C / °F
P100, P200	6:00	403 / 757	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	700 / 1292	–	550 / 1022 820 / 1508	820 / 1508 840 / 1544
P300, P500, P700	6:00	403 / 757	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	700 / 1292	20 / 36	550 / 1022 820 / 1508	820 / 1508 840 / 1544
PX1	6:00	403 /757	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	775 / 1427 1:30 min 700 / 1292 0:20 min	–	550 / 1022 820 / 1508	820 / 1508 840 / 1544
EP 600	6:00	403 / 757	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	700 / 1292	–	550 / 1022 820 / 1508	820 / 1508 840 / 1544
EP 5000	6:00	403 / 757	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	700 / 1292	20 / 36	550 / 1022 820 / 1508	820 / 1508 840 / 1544

With the Programat P100, only programs 65–69 can be used!

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- Depending on the furnace type, the firing temperature can be adjusted by ±5°C/9°F, max. by ±10°C/18°F.
- For use in a calibrated furnace with vacuum and slow or controlled cooling capabilities
- Crystallization should be conducted using a peg, paste, or putty to support the restoration on the peg

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Other furnaces / *Fremd-Öfen*

Jelrus Wizard	**Pre dry time**	**Dry time**	**Low temperature**	**Vacuum level**	**Start vacuum temperature**	**Heating rate**	**Vacuum release temperature**	**High temperature**	**Holding time with vacuum**	**Holding time without vacuum**	**Cooling temperature**	**Cooling time**
	6:00 min	0:00 min	400 °C / 752 °F	1 (High)	550 °C / 1022 °F	30 °C/min / 54 °F/min	840 °C / 1544 °F	840 °C/ 1544 °F	10:00 min	0:00 min	650 °C / 1202 °F	0:00 min
Intra Tech Pro 100	**Entry time**	**Entry temperature**	**Soak temperature**	**Soak time**	**Heating rate**	**Final temperature**	**Holding time**	**Sp cl time**	**Lower table**	**Cooling time**	**Start vacuum**	**Release vacuum**
	6:00 min	400 °C / 752 °F	400 °C / 752 °F	0:00 min	30 °C/min / 54 °F/min	845 °C / 1553 °F	10:00 min	0:00 min	700 °C / 1292 °F	0:00 min	550 °C / 1022 °F	845 °C / 1553 °F
Ney Centurion Q50	**Lo T**	**Dry**	**Rate**	**Hi T**	**Hold**	**Cool**	**Vacuum**	**Vacuum pull**	**Vacuum stop**	**Vacuum stop time**		
	400 °C / 752 °F	6:00 min	30 °C/min / 54 °F/min	865 °C / 1589 °F	10:00 min	8:00 min	101 %	550 °C / 1022 °F	865 °C / 1589 °F	10:00 min		
Dentsply Multimat C	**Vorwärm-temperatur** *Preheating temperature*	**Aufheizrate** *Heating rate*	**Brenn-temperatur** *Firing temperature*	**Trockenzeit** *Dry time*	**Vorwärmzeit** *Preheating time*	**Vakuumanzeige** *Vacuum*	**Vakuumzeit** *Vacuum time*	**Brennzeit** *Firing time*	**Kühlstufe** *Cooling rate*			
	400 °C / 752 °F	30 °C/min / 54 °F/min	860 °C / 1580 °F	6:00 min	–	50	9.6	10.0	3			
Dentsply Multimat Press+touch	**Vorwärm-temperatur** *Preheating temperature*	**Aufheizrate** *Heating rate*	**Trocknen** *Dry*	**Vakuumhöhe** *Vacuum level*	**Aufheizrate** *Heating rate*	**Brenn-temperatur** *Firing temperature*	**Vakuumzeit** *Vacuum time*	**Brennzeit** *Firing time*	**Temper-temperatur** *Tempering temperature*	**Temperzeit** *Tempering time*	**Kühlstufe** *Cooling rate*	
	400 °C / 752 °F	–	6:00 min	100 hPa	30 °C/min / 54 °F/min	845 °C / 1553 °F	10:00 min	10:00 min	0	0:00 min	3	
VITA Vacumat 4000	**Vortrocken-temperatur** *Predrying temperature*	**Vortrockenzeit** *Predrying time*	**Liftposition für Vortrocknen** *Lift position predrying*	**Temperatur-anstieg** *Temperature increase*	**Temperatur-anstieg** *Temperature increase*	**Endtemperatur** *Final temperature*	**Haltezeit Endtemperatur** *Holding time final temperature*	**Abkühl-temperatur** *Cooling temperature*	**Liftposition für Abkühlen** *Lift position cooling*	**Haltezeit Abkühltemp.** *Holding time Cooling temperature*	**Haltezeit Vakuum** *Holding time Vacuum*	**Vorvakuum** *Pre-vacuum*
	400 °C / 752 °F	6:00 min	50%	30 °C/min / 54 °F/min	15:00 min	850 °C / 1562 °F	10:00 min	680 °C / 1256 °F	100%	0:00 min	25:00 min	–
Dekema Austromat D4	**Trocknen** *Drying*	**Schliessen** *Closing*	**Vorwärmen** *Preheating*	**Temperatur 1** *Temperature 1*	**Temperatur 2** *Temperature 2*	**Temperatur 3** *Temperature 3*	**Vakuum (aus/level/halten)** *Vacuum (off/level/hold)*					
	–	6:00 min	400 °C / 752 °F; 0:00 min	765 °C / 1409 °F; 60 °C/min / 108 °F/min 5:00 min	840 °C / 1544 °F; 30 °C/min / 54 °F/min 10:00 min	700 °C / 1292 °F; 20 °C/min / 36 °F/min 0:00 min	840 °C / 1544 °F; 70% 10:00 min					

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