



PLASTIC WELDING

## Useful welding parameter for HD-PE, LD-PE and PVC Membranes

Please note: The final welding parameter will vary depending on the ambient temperature and the material quality. Test welds need to be carried out. All Pressure values are cold settings before heating. These tables are to be used as a guide only. Leister takes no responsibility for poor quality welding!

		HD-PE (mm)						LD-PE (mm)					PVC (mm)						
Combi wedge		0.3	0.5	1.0	1.5	2.0	2.5	3.0	0.3	0.5	1.0	1.5	2.0	0.8	1.0	1.5	2.0	2.5	3.0
<b>TWINNY T7</b>	Short	400° C 7.0 m/min. 70% Air vol. 400 N	500° C 6.0 m/min. 80% Air vol. 600 N	560° C 3.0 m/min. 100% Air vol. 750 N	560° C 2.2 m/min. 100% Air vol. 800 N				400° C 7.0 m/min. 70% Air vol. 400 N	500° C 6.0 m/min. 80% Air vol. 500 N	560° C 3.0 m/min. 100% Air vol. 600 N	560° C 2.5 m/min. 100% Air vol. 700 N	560° C 2.0 m/min. 100% Air vol. 800 N	500° C 5.5 m/min. 80% Air vol. 300 N	560° C 4.0 m/min. 100% Air vol. 400 N	560° C 3.0 m/min. 100% Air vol. 500 N	560° C 2.0 m/min. 100% Air vol. 600 N	560° C 1.5 m/min. 100% Air vol. 650 N	560° C 1.2 m/min. 100% Air vol. 750 N
	Long			560° C 4.0 m/min. 100% Air vol. 750 N	560° C 3.0 m/min. 100% Air vol. 800 N	560° C 2.5 m/min. 100% Air vol. 850 N					560° C 4.5 m/min. 100% Air vol. 600 N	560° C 3.5 m/min. 100% Air vol. 700 N	560° C 3.0 m/min. 100% Air vol. 800 N		560° C 5.0 m/min. 100% Air vol. 400 N	560° C 4.0 m/min. 100% Air vol. 500 N	560° C 3.0 m/min. 100% Air vol. 600 N	560° C 2.0 m/min. 100% Air vol. 100% Air vol.	560° C 1.5 m/min. 100% Air vol. 750 N
<b>TWINNY T5</b>	Short	400° C 5.5 m/min. 70% Air vol.	500° C 4.5 m/min. 80% Air vol.	560° C 2.5 m/min. 100% Air vol.	560° C 1.5 m/min. 100% Air vol.				400° C 5.5 m/min. 70% Air vol.	500° C 4.5 m/min. 80% Air vol.	560° C 2.5 m/min. 100% Air vol.	560° C 2.0 m/min. 100% Air vol.	560° C 1.5 m/min. 100% Air vol.	500° C 4.5 m/min. 80% Air vol.	560° C 3.5 m/min. 100% Air vol.	560° C 2.5 m/min. 100% Air vol.	560° C 1.8 m/min. 100% Air vol.	560° C 1.2 m/min. 100% Air vol.	560° C 0.8 m/min. 100% Air vol.
	Long			560° C 3.0 m/min. 100% Air vol.	560° C 2.0 m/min. 100% Air vol.	560° C 1.5 m/min. 100% Air vol.					560° C 3.5 m/min. 100% Air vol.	560° C 2.5 m/min. 100% Air vol.	560° C 2.0 m/min. 100% Air vol.		560° C 4.0 m/min. 100% Air vol.	560° C 3.0 m/min. 100% Air vol.	560° C 2.0 m/min. 100% Air vol.	560° C 1.5 m/min. 100% Air vol.	560° C 1.0 m/min. 100% Air vol.

Wedge		Steel wedge required																		
<b>COMET 700</b>	90 mm			400° C 5.0 m/min. 700 N	400° C 4.5 m/min. 900 N	400° C 4.0 m/min. 900 N	400° C 3.5 m/min. 1000 N					350° C 5.5 m/min. 700 N	380° C 5.0 m/min. 750 N	380° C 4.5 m/min. 800 N		400° C 4.0 m/min. 550 N	400° C 3.2 m/min. 600 N	400° C 3.0 m/min. 650 N	400° C 2.7 m/min. 700 N	400° C 2.5 m/min. 750 N
	60 mm		400° C 5.0 m/min. 600 N	400° C 4.5 m/min. 700 N	400° C 3.5 m/min. 800 N	400° C 3.0 m/min. 900 N				300° C 5.0 m/min. 650 N	350° C 4.5 m/min. 700 N	380° C 4.0 m/min. 750 N	380° C 3.5 m/min. 800 N		400° C 3.0 m/min. 550 N	400° C 2.7 m/min. 600 N	400° C 2.5 m/min. 650 N	400° C 2.3 m/min. 700 N	400° C 2.0 m/min. 750 N	
<b>COMET 500</b>	60 mm		400° C 4.0 m/min. max. pressure	400° C 3.5 m/min. max. pressure	400° C 3.0 m/min. max. pressure	400° C 2.5 m/min. max. pressure				300° C 4.5 m/min. ¼ pressure	350° C 4.0 m/min. ¼ pressure	380° C 3.5 m/min. ¼ pressure	380° C 3.0 m/min. ¼ pressure		400° C 3.0 m/min. ½ pressure	400° C 2.7 m/min. ½ pressure	400° C 2.5 m/min. ½ pressure	400° C 2.3 m/min. ½ pressure	400° C 2.0 m/min. ½ pressure	
<b>GEOSTAR G7</b>	230 V/2800 W			380° C 7.0 m/min. 900 N	400° C 6.0 m/min. 1050 N	400° C 5.0 m/min. 1200 N	400° C 3.5 m/min. 1300 N	400° C 2.5 m/min. 1400 N				380° C 7.0 m/min. 900 N	380° C 6.0 m/min. 1050 N	380° C 5.0 m/min. 1200 N						
<b>GEOSTAR G5</b>	230 V/2800 W			380° C 3.6 m/min. 900 N	400° C 3.0 m/min. 1050 N	400° C 2.5 m/min. 1200 N	400° C 1.8 m/min. 1300 N	400° C 1.3 m/min. 1400 N				380° C 3.5 m/min. 900 N	380° C 3.0 m/min. 1050 N	380° C 2.5 m/min. 1200 N		400° C 3.5 m/min. 600 N	400° C 3.2 m/min. 700 N	400° C 3.0 m/min. 750 N	400° C 2.7 m/min. 800 N	400° C 2.5 m/min. 850 N
<b>GEOSTAR G5</b>	120 V/1800 W			380° C 3.5 m/min. 900 N	400° C 2.9 m/min. 1050 N	400° C 2.4 m/min. 1200 N	400° C 1.6 m/min. 1300 N	400° C 1.2 m/min. 1400 N				380° C 3.0 m/min. 900 N	380° C 2.5 m/min. 1050 N	380° C 2.0 m/min. 1200 N		400° C 3.5 m/min. 600 N	400° C 3.2 m/min. 700 N	400° C 3.0 m/min. 750 N	400° C 2.7 m/min. 800 N	400° C 2.5 m/min. 850 N

Leister PW GEO Welding Parameters for Welders V-2022\_Metric



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