

GFL 1800 SL

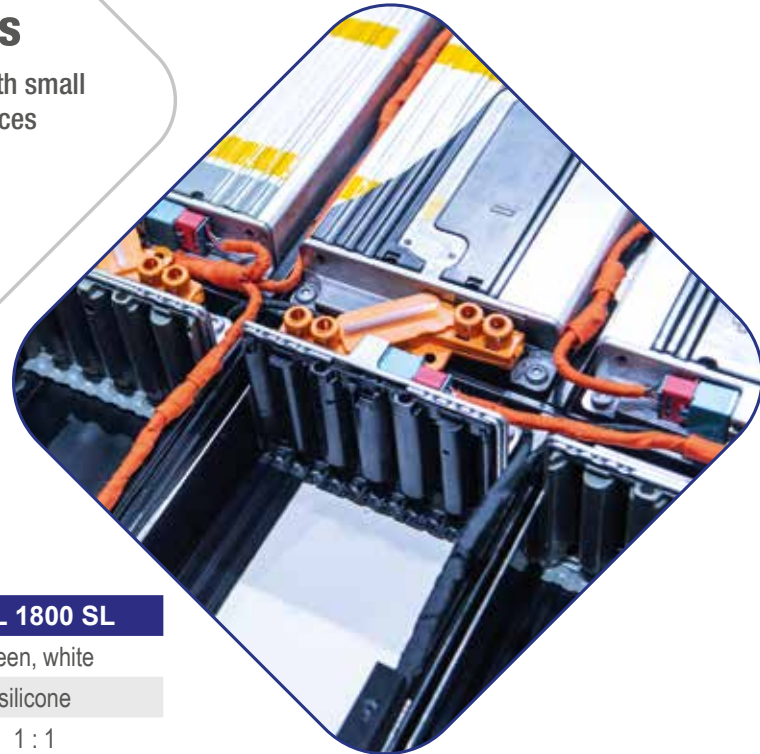
Gap Filler Liquid

Applications

- ◆ All applications with small fabrication tolerances
- ◆ Encapsulation

Benefits

- ◆ Room temperature curing
- ◆ Liquid assembly
- ◆ compatible with industrial production sequences



Properties	Unit	GFL 1800 SL
Colour		green, white
Basic material		silicone
Mixing ratio		1 : 1
Curing	T[°C]	1h ; 25 °C
Thermal Properties		
Thermal resistance R_{th}^*	K/W	1.38
Thermal conductivity λ	W/mK	1.8
Electrical Properties		
Breakdown voltage $U_{d; ac}$	kV	7.5
Dielectric breakdown $E_{d; ac}$	kV/mm	15.0
Mechanical Properties		
Measured thickness (+/-10%)	mm	0.500
Hardness	Shore 00	55 - 75
Physical Properties		
Application temperature	°C	-40 to +200
Density	g/cm ³	2.3
Viscosity**	mPas	2.000 - 7.000
Total mass loss (TML)	Ma. -%	< 0.17
Flame rating	UL-94	V-0***
Possible thickness	mm	0.2000 - 5.000

The GFL 1800 SL is solvent free Gap Filler Liquid based on a two component silicone elastomer with 1.8 W/mK, 15 kV/mm and a viscosity of < 7000 mPas. In comparison to other Gap Filler Liquids the viscosity is 1/10. Therefore, the material “flowing like water”, has the advantage of self-levelling and filling up every corner like a common potting material.

* Measured thickness 1 mm ** Shear rate 4s⁻¹ / 25°C *** KERAFOL® test according to UL

NOTE:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOL® is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOL® would be nevertheless held liable, on whatever legal ground, KERAFOL®'s liability will in no event exceed the amount of the concerned delivery. All KERAFOL® products are sold pursuant to the KERAFOL®'s Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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