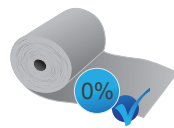


# preliminary DATA SHEET



**SOFTTHERM® Films silicone free**

## U110 silicone free

### Applications

- ◆ silicone sensitive applications
- ◆ electric vehicles
- ◆ high energy rechargeable batteries

### Benefits

- ◆ low hardness
- ◆ elastic
- ◆ good aging behavior

Properties	Unit	U110
Colour		brown
Basic material		silicone free
<b>Thermal Properties</b>		
Thermal resistance $R_{th}$	K/W	1.2
Thermal conductivity $\lambda$	W/mK	2.0
<b>Electrical Properties</b>		
Breakdown voltage $U_{d; ac}$	kV	16
Dielectric breakdown $E_{d; ac}$	kV/mm	16
<b>Mechanical Properties</b>		
Measured thickness (+/-10%)	mm	1.000
Hardness	Shore 00	60-75
<b>Physical Properties</b>		
Application temperature	°C	-40 to 80
Density	g/cm <sup>3</sup>	1,87
Flame rating	UL-94	V-0*
Possible thickness	mm	TBD

\* Measured thickness 1 mm

Flexible ceramic, thermoconducting and insulating. SOFTTHERM® U 110 is particularly suitable for silicone sensitive applications and an alternative to silicone based SOFTTHERM® Films.

The silicone free SOFTTHERM® Film offers high electrical insulation and very good thermal conductivity.

\*Kerafol test according to UL

Data for engineer guidance only.  
Observed performance varies in application.  
Engineers are reminded to test the material in application.

**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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