



U110

silicone free

NEW

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
Thermal Properties*		
Thermal resistance R_{th}	K/W	1.2
Thermal conductivity λ	W/mK	2.0
Electrical Properties**		
Dielectric breakdown voltage $U_{d, ac}$	kV	8.0
Mechanical Properties		
Hardness	Shore 00	60 - 75
Physical Properties		
Application temperature***	°C	-40 to 110
Density	g/cm ³	1.87
Flame rating****	UL-94	V-0
Possible thickness	mm	0.5 - 2.0

* Measured @ thickness 1 mm ** Measured @ thickness 0.5 mm *** may cause increase in hardness

**** KERAFOLE® test according to UL

Flexible ceramic, thermoconducting and insulating. U 110 is particularly suitable for silicone sensitive applications and an alternative to silicone based Gap Pads (Softtherm Films). The silicone free Gap Pads (Softtherm Films) offer high electrical insulation and very good thermal conductivity.

Attention

At maximum pressure, Gap Pads (Softtherm Films) should not be compressed beyond 30% of the original thickness. In case the material should be compressed more than 30%, the SOFTTHERM® material may leak out.

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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