



## TECHNICAL DATA SHEET

CMC TYPE	CMC 70821
<b>Product description</b>	
CMC 70821 is a Kapton® film with good thermal conductivity and very good insulating properties even at high temperatures. One side is coated with a pressure sensitive adhesive, the other side with a phase change wax providing clean and easy pre-assembly as well as improved heat transfer.	
<b>Substrate</b>	Kapton MT, thermally conductive
Colour	brown
Thermal conductivity in W/(m·K) of the Kapton film	0.46
Substrate thickness in mm	0.050 ± 15%
Adhesive thickness in mm	ca. 0.025
Thickness of the phase change wax in mm	ca. 0.018
Total thickness in mm	0.093 ± 10%
<b>Adhesive Properties</b>	
Type of adhesive / coating	1 <sup>st</sup> side acrylic adhesive 2 <sup>nd</sup> side copolymer wax
Adhesive strength in N/cm according to internal method PV 1006-32 (180° peel from steel)	≥ 2 (1 <sup>st</sup> side)
<b>Thermal Properties</b>	
Flowing temperature of the wax in °C	ca. 95
Temperature performance (max.) in °C	180
Insulation class according to IEC 60085	F
<b>Electrical Properties</b>	
Breakdown voltage based on IEC 60243-1 in V <sub>eff.</sub>	≥ 7'000
<b>Mechanical Properties</b>	
Tensile strength in N/cm	≥ 50
Elongation at break in %	≥ 20
<b>Other Properties</b>	 
Liner	siliconized paper
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Storage conditions: cool and dry (15 - 25°C, &lt; 65% rel. humidity)

10/19

Quality guarantee: 12 months

The technical data are average values and subject to change without notice. They are not intended to replace user's testing.

 Note on REACH: Some of our products do contain substances from the so-called candidate list. Please visit <https://en.cmc.de/page/reach> and check whether or not a purchased product is listed in our REACH statement and therefore does contain one or more SVHCs.