CMC Klebetechnik GmbH Rudolf-Diesel-Straße 4 Germany - 67227 Frankenthal 0049 (0)6233/872-300

Technical Data Sheet

CMC TYPE	**CMC 15005** (in different material thicknesses)		
Product description CMC 15005 is a silicone film for thermal interconnection between e.g. MOSFETs or IGBTs and cooling surfaces. It combines excellent thermal conductivity with good electrical insulation, mechanical stability and easy handling. The silicone is resistant to ageing and its surface can adjust to minor irregularities to provide optimal thermal contact.			
Material	silicone with ceramic fillers and fibre glass reinforcement		
Material thicknesses	0.20 mm 0.45 mm 0.30 mm 0.80 mm		
Colour	white		
Flammability according to UL 94	V-0		
Thermal properties			
Thermal conductivity	5.0 W/(m·K)		
Service temperature range	from -50°C up to +200°C		
Material thickness	0.20 mm	0.30 mm	0.45 mm
Thermal resistance @ 1 MPa	0.11 °C·in²/W	0.15 °C·in²/W	0.17 °C·in²/W
Thermal resistance @ 200 kPa	0.29 °C·in²/W	0.32 °C·in²/W	0.35 °C·in²/W
Material thickness	0.80 mm		
Thermal resistance @ 1 MPa	0.27 °C·in²/W		
Thermal resistance @ 200 kPa	0.52 °C·in²/W		
Electrical properties			
Comparative tracking index (CTI)	0 (> 600 V)		
Dielectric constant @ 1 MHz	3.3		
Material thickness	0.20 mm	0.30 mm	0.45 mm
Breakdown voltage according to ASTM D 149	3.0 kV AC	6.0 kV AC	9.0 kV AC
Volume resistance	$1.7 \cdot 10^{15}$ Ω·cm	$7.9 \cdot 10^{15}$ Ω·cm	$9.2 \cdot 10^{15}$ Ω·cm
Material thickness	0.80 mm		
Breakdown voltage according to ASTM D 149	> 10 kV AC		
Volume resistance	$8.9 \cdot 10^{15}$ Ω·cm		

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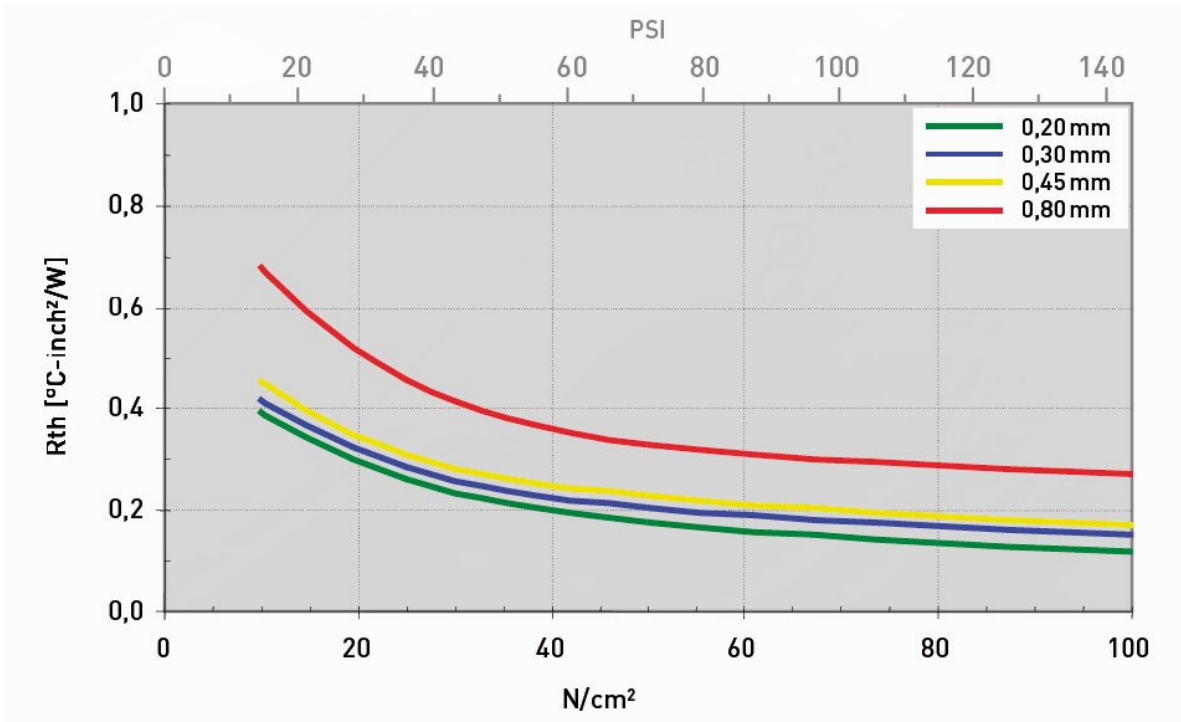

thermal resistance R_{th} as a function of pressure for CMC 15005

Other properties	RoHS compliant ✓ REACh compliant ✓

Recommended storage: not in direct sunlight
ambient temperature < 35°C
relative humidity < 85%

08/21

Quality guarantee: 12 months

The technical data represents average values subject to change without notice. It is not intended to replace users' 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.