

preliminary technical data sheet

CMC TYPES	70041	25 µm	1,0 mil
Kapton® MT+ by DuPont	70042	37,5 µm	1,5 mil
	70043	50 µm	2,0 mil
	Product description		
<p>Polyimide film filled with ceramics for significantly higher thermal conductivity compared to Kapton® MT while still retaining outstanding mechanical and electrical properties. Perfectly suited for insulation purposes in electronics where controlled heat transfer is essential.</p>			
Colour	yellow		
Mechanical properties			
Tensile strength according to ASTM D882	ca. 80 to 90 MPa or N/mm ²		
Elongation at break according to ASTM D882	ca. 50%		
Modulus according to ASTM D882	ca. 4,2 GPa or kN/mm ²		
Electrical properties			
Dielectric strength according to ASTM D149	CMC 70041	ca. 5,4 kV _{eff} /mil	
	CMC 70042	ca. 4,9 kV _{eff} /mil	
	CMC 70043	ca. 3,9 kV _{eff} /mil	
Thermal properties			
Thermal conductivity according to ASTM D5470	CMC 70041	ca. 0,78 W/(m·K)	
	CMC 70042	ca. 0,80 W/(m·K)	
	CMC 70043	ca. 0,85 W/(m·K)	
Other properties			
Flammability according to UL94	V-0		
 			
<p>Information concerning regulation (EC) No 1907/2006 (REACH): This product contains one or more substances of very high concern (SVHCs) from the candidate list in amounts greater than 0.1% (w/w). Safe handling instructions can be found here: http://www.cmc.de/en/technical-information/reach.html</p>			

Storage conditions: cool and dry (15 - 25°C, < 65% rel. humidity)

08/17

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. All information transferred from the original DuPont data sheet.