

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				
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.				
Colour		yellow		
Mechanical properties				
Tensile strength according to ASTM D882		ca. 80 to 90 MPa or N/mm²		
Elongation at break according to ASTM D882		ca. 50%		
Modulus according to ASTM D882		ca. 4,2 GPa or kN/mm²		
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		
<div><div>RoHS compliant ✓</div><div>REACH compliant ✓</div></div>				
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				

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.