

HM Wire International, Inc.

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“Sofimide CH” Polimide Equivalent Data Sheet

Properties and usages:

Sofimide CH® is a polyimide film produced from poyrmellitic dianhydride and 4,4' diaminodiphenyl ether by polycondensating and curtain casting. It has the following properties:

1. Good property of insulation and mechanism.
2. Excellent property of heat resistance and wide range of working temperature. It can be used between either -60°C ~ +250°C for a long time or -296°C ~ +400°C for a short period without changing its electrical and mechanical properties.
3. Good chemical stability: it resists most organic solvents.
4. Excellent flame retardant property.
5. Radiant resistance: after irradiating with y-ray of 109 lattes its properties unchanged.
6. Can be complexed with many materials. When complexed with fluorine resin, its characters of wet resistance and corona resistance are improved greatly.

It is suitable for the insulation of Class-H motors and appliances.

Thickness & Tolerance:

Nominal Thickness	25 µm	40 µm	50 µm	75 µm
	+2 µm	+6 µm	+7 µm	+8 µm
Allowed Tolerance	-3 µm	-5 µm	-6 µm	-7 µm

Properties:

Properties		Unit	Standard Value
Thickness		µm	25
Density		Kg / m ³	1420 ± 20
Tensile Strength	MD	MPa	135
	TD		115
Elongation Rate		%	35
Dielectric Strength	Average	kv / mm	140
	Single		80
Volume Resistance at 200°C		Ω x cm	≥ 1.0 x 10 ¹⁰
Surface Resistance at 200°C		Ω	≥ 1.0 x 10 ¹³
Dielectric Constant at 50 Hz			3.5 ± 0.4
Dissipation factor at 50 Hz			≤ 4.0 x 10 ⁻³
Storage Life		Two years from date of dispatch	