

SynTherm® AHA/50 HCT **Preliminary**

SynTherm® AHA/50 HCT is a flexible 3-ply insulating material made of Polyimide film with a layer of aramid paper marked on both sides, and double sided with special coating.

Attributes

SYNtherm® AHA/50 HCT is tough and flexible. This allows for easy insertion into the slot and the spreading effect ensures a sturdy grip. It can improve insulation protection for CTI \geq 600(PLC 0).

Application

SynTherm® APA/50 HCT is used for slot insulation, phase-to-phase insulation, and wedges in high-load motors. Specifically, it is CTI \geq 600(PLC 0), it to be applied in scenarios with special CTI requirements. It can also be used for core, interlayer insulation, and final insulation in transformers and other electrical equipment.

Standards

Suitable for class H (180 °C) systems.
RoHS compliant according to 2002/ 95/ EC.

Delivery forms

Total thickness in μm :

- 150, 170, 200, 220, 240, 300, 360, 420, 480, 500

SYNtherm® AHA/50 HCT is available:

- In tapes: depending on material thickness on request
- (beginning at 6mm, thin material)
- In rolls: up to 1,030 mm

Feathering:

- Depth approx. 1-12 mm, distance approx. 1 - 10 mm
- From widths 10 mm to 240 mm, thickness on request

Base

PI-film + aramid paper on both sides, and double sided with special coating.

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SynTherm® is a registered trademark of SynFlex

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Technical data

Typical Mechanical and electrical Properties

Typical mechanical properties	Unit					
Total thickness	mm	0.15	0.17	0.19	0.22	0.24
Max. thickness tolerance	%	± 15	± 15	± 15	± 15	± 15
Specific weight	g/m ²	160	178	198	233	268
Film thickness	µm	23	36	50	75	100
Aramid paper thickness	µm	50	50	50	50	50
Dielectric strength	kV	≥7	≥9	≥11	≥12	≥7

Typical mechanical properties	Unit					
Total thickness	mm	0.26	0.32	0.38	0.44	0.50
Max. thickness tolerance	%	± 15	± 15	± 15	± 15	± 15
Specific weight	g/m ²	303	393	478	548	618
Film thickness	µm	125	190	250	300	350
Aramid paper thickness	µm	50	50	50	50	50
Dielectric strength	kV	≥12	≥15	≥18	≥20	≥22

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