

Synflex Electric (Shanghai) Co., Ltd

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## SynTherm® H CR

SynTherm® H CR is a polyimide film with Corona resistance.

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### Attributes

SynTherm® H CR has common properties such as high/low temperature resistance, electrical insulation, radiation resistance, and corrosion resistance. SynTherm® H CR also has exceptional corona resistance and excellent thermal conductivity.

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### Application

SynTherm® H CR can be used in main insulation for large traction motors, wind power generation motors and special motors, as well as in corona-resistant protective layers for external insulation of extra-large coils.

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### Standards

Thermal Class H (180 °C)

RoHS 2011/65/EU.

REACH 1907/2006/EC

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### Delivery format

Total thickness in µm::

25, 30, 50

SynTherm® H CR can be supplied:

- in slit rolls from widths of 6 mm and above
- in rolls approx. width of 800 mm
- in sheets approx. 600 x 800 mm, 800 x 800 mm

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The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

# SynTherm® H CR

## Technical Data

Typical mechanical properties	Unit			
Normal thickness	mm	0.025	0.03	0.05
Thickness tolerance	mm	-0.003/+0.003	-0.003/+0.003	-0.004/+0.004
Tensile strength MD	MPa	135	135	135
Tensile strength XD	MPa	115	115	115
Elongation MD	%	35	35	35
Elongation XD	%	35	35	35

Typical electrical properties	Unit			
Normal thickness	mm	0.025	0.03	0.05
Dielectric strength	MV/m	150	150	150
Surface Resistance	$\Omega$	$10^{13}$	$10^{13}$	$10^{13}$
Volume Resistance	$\Omega.m$	$10^{12}$	$10^{12}$	$10^{12}$
Corona resistance (Rise 100ns, $\Delta V=3kV$ , 20kHz)	min	30	30	30

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