Product datasheet Hostaphan® Page 1

SynFlex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg Germany Telefon +49-5235-968-0 E-Mail info@synflex.de



Hostaphan®

Hostaphan $^{\circ}$ is a biaxial oriented Polyethylenterephthalate (PET) film. It can be used at temperatures of -70 °C to 150 °C

Application

According to the manufacturer's specifications Hostaphan® is used in class B (130 °C) systems by numerous manufacturers of electric motors. Hostaphan® is used as slot insulation, phase insulation and wedges for motors and generators. Hostaphan® is used as core-, interlayer and final insulation for transformers, chokes and relays.

Standards

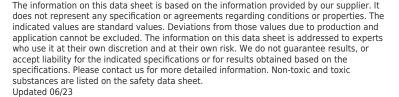
UL-approved, file-no. E53895

Delivery forms

Total thickness in μ m: 19, 23, 36, 50, 75, 100, 125, 190, 250, 300, 350, 500 Hostaphan® is available in tapes as of 6 mm width.

Base

Polyethylenterephthalate







SynFlex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg Germany Telefon +49-5235-968-0 E-Mail info@synflex.de



Mechanical	Unit of measure	Type RNK	Type RNK	Type RNK	Type RNK	Type RN	Type RN
Nominal thickness	μm	12	19	23	36	50	75
Tensile strength longitudinal	N/mm²	260	260	260	260	195	195
Tensile strength transversal	N/mm²	260	260	260	280	225	225
Elongation at break longitudinal*	%	120	120	120	140	200	200
Elongation at break transversal*	%	120	120	120	125	140	140
Shrinkage (15 min. at 150 °C) longitudinal	%	1.5	1.5	1.5	1.0	1.0	1.0
Shrinkage (15 min. at 150 °C) transversal	%	0.2	0.2	0.2	0.1	0.3	0.3
Dielectic strength	kV	4.5	6.5	7.5	10	12	16

Mechanical	Unit of	Type	Type	Type	Type	Type	Type
	measure	RN	RN	WN	WN	WN	WN
Nominal thickness	μm	100	125	190	250	300	350

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. Updated 06/23





SynFlex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg Germany Telefon +49-5235-968-0 E-Mail info@synflex.de



Mechanical	Unit of measure	Type RN	Type RN	Type WN	Type WN	Type WN	Type WN
Tensile strength longitudinal	N/mm²	200	200	190	200	190	190
Tensile strength transversal	N/mm²	220	220	230	200	190	190
Elongation at break longitudinal*	%	190	190	200	200	230	230
Elongation at break transversal*	%	140	140	140	190	200	200
Shrinkage (15 min. at 150 °C) longitudinal	%	1.0	1.0	1.0	1.0	1.0	1.0
Shrinkage (15 min. at 150 °C) transversal	%	0.3	0.3	0.8	0.8	0.8	0.8
Dielectic strength	kV	19	23	30	>30	>30	>30

Mechanical	Unit of measure	Type RN	Test method
Nominal thickness	μm	500	
Tensile strength longitudinal	N/mm²	160	ISO 527-1 and ISO 527-3, specimen type 2
Tensile strength transversal	N/mm²	170	ISO 527-1 and ISO 527-3 / specimen type 2

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. Updated 06/23





Product datasheet Hostaphan[®] Page 4

SynFlex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg Germany Telefon +49-5235-968-0 E-Mail info@synflex.de



Mechanical	Unit of measure	Type RN	Test method
Elongation at break longitudinal*	%	220	ISO 527-1 and ISO 527-3, specimen type 2
Elongation at break transversal*	%	180	ISO 527-1 and ISO 527-3, specimen type 2
Shrinkage (15 min. at 150 °C) longitudinal	%	0.9	DIN 40634
Shrinkage (15 min. at 150 °C) transversal	%	0.6	DIN 40634
Dielectic strength	kV	-	DIN 40634

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. Updated 06/23



