SynFlex Elektro GmbH
Auf den Kreuzen 24
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Hostaphan®

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

Base

Polyethylenterephthalate

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

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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

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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