
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

Mechanical	Unit of measure	Type RNK	Type RNK	Type RNK	Type RN	Type RN	Type RN
Nominal thickness	µm	19	23	36	50	75	100
Tensile strength longitudinal	N/mm ²	260	260	260	195	195	200
Tensile strength transversal	N/mm ²	260	260	280	225	225	220
Elongation at break longitudinal*	%	120	120	140	200	200	190
Elongation at break transversal*	%	120	120	125	140	140	140
Shrinkage (15 min. at 150 °C) longitudinal	%	1.5	1.5	1.0	1.0	1.0	1.0
Shrinkage (15 min. at 150 °C) transversal	%	0.2	0.2	0.1	0.3	0.3	0.3
Dielectric strength	kV	6.5	7.5	10	12	16	19

Mechanical	Unit of measure	Type RN	Type WN	Type WN	Type WN	Type WN	Type RN
Nominal thickness	µm	125	190	250	300	350	500

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Mechanical	Unit of measure	Type RN	Type WN	Type WN	Type WN	Type WN	Type RN
Tensile strength longitudinal	N/mm ²	200	190	200	190	190	160
Tensile strength transversal	N/mm ²	220	230	200	190	190	170
Elongation at break longitudinal*	%	190	200	200	230	230	220
Elongation at break transversal*	%	140	140	190	200	200	180
Shrinkage (15 min. at 150 °C) longitudinal	%	1.0	1.0	1.0	1.0	1.0	0.9
Shrinkage (15 min. at 150 °C) transversal	%	0.3	0.8	0.8	0.8	0.8	0.6
Dielectric strength	kV	23	30	>30	>30	>30	-

Mechanical	Unit of measure	Test method
Nominal thickness	µm	
Tensile strength longitudinal	N/mm ²	ISO 527-1 and ISO 527-3, specimen type 2
Tensile strength transversal	N/mm ²	ISO 527-1 and ISO 527-3 / specimen type 2

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

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