

---

## 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 RNK	Type RN	Type RN
Nominal thickness	µm	12	19	23	36	50	75
Tensile strength longitudinal	N/mm <sup>2</sup>	260	260	260	260	195	195
Tensile strength transversal	N/mm <sup>2</sup>	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
Dielectric 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

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

Hostaphan® is a registered trade mark of MITSUBISHI POLYESTER FILM GmbH.



Mechanical	Unit of measure	Type RN	Type RN	Type WN	Type WN	Type WN	Type WN
Tensile strength longitudinal	N/mm <sup>2</sup>	200	200	190	200	190	190
Tensile strength transversal	N/mm <sup>2</sup>	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
Dielectric strength	kV	19	23	30	>30	>30	>30

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

Hostaphan® is a registered trade mark of MITSUBISHI POLYESTER FILM GmbH.



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
Dielectric 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

Hostaphan® is a registered trade mark of MITSUBISHI POLYESTER FILM GmbH.

