TRIVOLTON HP:
For insulation class B.

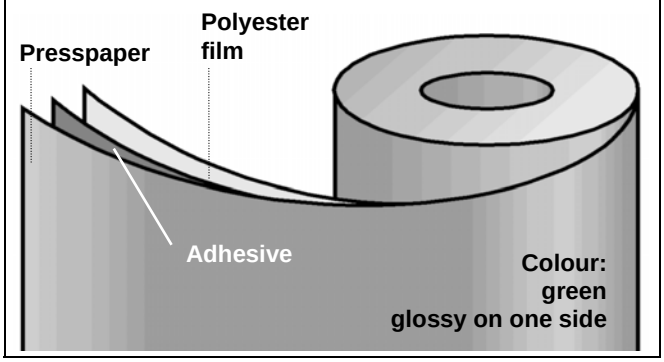
Composition and properties.

TRIVOLTON HP is a KREMPEL double-layer insulation made of polyester film with high-grade presspaper overlay on one side for insulation class B. Depending upon the thickness of the film TRIVOLTON HP has a very high dielectric strength. Very high bending strength and spring elasticity characteristics are also achieved in thicker materials with thin film overlays, as a result of the single-sided presspaper overlay.

As a result of the double-layer composition, when using TRIVOLTON HP it must be noted that the polyester film is not protected against the effects of hydrolysis and oxidation or mechanical damage and that impregnating agents adhere less well on the film side.

Over the course of time specific standard types of TRIVOLTON HP have been created, with the varying overall thicknesses being achieved by different thicknesses of polyester films or presspaper layers. The precise composition is described in more detail by way of combinations of letters and numbers. Please see our current price lists for the minimum order quantities for standard types of TRIVOLTON HP.

Composition of TRIVOLTON HP



Standard types TRIVOLTON HP

Standard types	Film thickness
TRIVOLTON HP 25	23
TRIVOLTON HP 40	36

Designations

TRIVOLTON HP 00 00

- Two-layer material PSP+PET
- Thickness of PET film in µm
- Overall thickness 00 x 10 in µm

e.g. TRIVOLTON HP 40 20

- Two-layer material PSP+PET
- Thickness of PET film 36 µm
- Overall thickness 20 x 10 = 200 µm

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Technical data TRIVOLTON HP

Dimensions and formats TRIVOLTON HP

Type	Nominal thickness mm	Toler-ance ± %	Film thickness µm	Area weight g/m²	Toler-ance ± %	Area utilization approx. m²/kg	Standard core mm	Standard widths master reels approx. mm
TRIVOLTON HP 2510	0.10	15	23	115	12	8.7	70	1200
TRIVOLTON HP 2515	0.15	15	23	190	12	5.3	70	1200
TRIVOLTON HP 2520	0.20	15	23	250	12	4.0	70	1200
TRIVOLTON HP 2525	0.25	15	23	300	12	3.3	70	1200
TRIVOLTON HP 2530	0.30	10	23	370	12	2.7	70	1200
TRIVOLTON HP 4015	0.15	15	36	190	12	5.3	70	1200
TRIVOLTON HP 4020	0.20	15	36	250	12	4.0	70	1200
TRIVOLTON HP 4025	0.25	15	36	310	12	3.2	70	1200
TRIVOLTON HP 4030	0.30	15	36	370	12	2.7	70	1200
TRIVOLTON HP 4035	0.35	15	36	430	12	2.3	70	1200
TRIVOLTON HP 4040	0.40	10	36	490	12	2.0	70	1200
TRIVOLTON HP 4050	0.50	10	36	610	12	1.6	70	1200
TRIVOLTON HP 4060	0.60	10	36	730	12	1.4	70	1200
TRIVOLTON HP 4070	0.70	10	36	875	12	1.1	70	1200
TRIVOLTON HP 4080	0.80	10	36	1020	12	1.0	70	1200
TRIVOLTON HP 40100	1.00	10	36	1300	12	0.8	70	1200

Characteristic values TRIVOLTON HP

Type	Nominal thickness mm	Tensile strength longi-tudinal N/10mm	Tensile strength trans-verse N/10mm	Elongation longi-tudinal %	Elongation transverse %	Dielectric strength kV	Shrinkage longi-tudinal %	Shrinkage trans-verse %	Moisture content approx. %
TRIVOLTON HP 2510	0.10	≥ 90	≥ 70	≥ 3	≥ 10	≥ 6	≤ 0.7	≤ 1.5	5
TRIVOLTON HP 2515	0.15	≥ 135	≥ 100	≥ 4	≥ 10	≥ 6	≤ 0.7	≤ 1.5	6
TRIVOLTON HP 2520	0.20	≥ 180	≥ 120	≥ 5	≥ 13	≥ 6	≤ 0.7	≤ 1.5	6
TRIVOLTON HP 2525	0.25	≥ 220	≥ 140	≥ 5	≥ 13	≥ 6	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 2530	0.30	≥ 270	≥ 180	≥ 5	≥ 13	≥ 6	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4015	0.15	≥ 150	≥ 110	≥ 3	≥ 13	≥ 7	≤ 0.7	≤ 1.5	5
TRIVOLTON HP 4020	0.20	≥ 190	≥ 130	≥ 5	≥ 13	≥ 7	≤ 0.7	≤ 1.5	6
TRIVOLTON HP 4025	0.25	≥ 200	≥ 160	≥ 5	≥ 13	≥ 7	≤ 0.7	≤ 1.5	6
TRIVOLTON HP 4030	0.30	≥ 270	≥ 180	≥ 5	≥ 13	≥ 7	≤ 0.7	≤ 1.5	6
TRIVOLTON HP 4035	0.35	≥ 300	≥ 200	≥ 5	≥ 13	≥ 7	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4040	0.40	≥ 360	≥ 240	≥ 5	≥ 13	≥ 8	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4050	0.50	≥ 450	≥ 300	≥ 5	≥ 13	≥ 8	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4060	0.60	≥ 540	≥ 360	≥ 6	≥ 13	≥ 8	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4070	0.70	≥ 660	≥ 400	≥ 6	≥ 13	≥ 8	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 4080	0.80	≥ 720	≥ 480	≥ 6	≥ 13	≥ 10	≤ 0.7	≤ 1.5	7
TRIVOLTON HP 40100	1.00	≥ 900	≥ 600	≥ 6	≥ 13	≥ 14	≤ 0.7	≤ 1.5	7

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