

VOLTAFLEX® F 6642

Composition

VOLTAFLEX® F 6642 consists of PET-film covered on both sides with PET-fleece (DMD) impregnated with high grade temperature resistant resin.

Application

VOLTAFLEX® F 6642 is used as slot and phase insulation for low voltage machines or as interlayer insulation for transformers.

Properties

VOLTAFLEX® F 6642 has excellent electrical and mechanical properties. The smooth surface of VOLTAFLEX® F 6642 enables easy processing on automatic machines.

Formats

Sheets: untrimmed width 1000mm, length on request

Rolls: untrimmed width max. 1840mm

Tapes: thickness up to 0,45mm: from 5 mm width upwards , other thicknesses on request. roll length on request.

Storability

VOLTAFLEX® F 6642 can be stored unlimited under normal conditions (RT, 50 % r. h.) in original packing.

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

VOLTAFLEX[®] F 6642

TECHNICAL DATA

Properties	Test method	Unit	Value	Value	Value	Value	Value	Value
Nominal thickness	IEC 60626	mm	0.13	0.16	0.19	0.21	0.24	0.31
Tolerance	IEC 60626	%	± 15	± 15	± 15	± 15	± 15	± 15
Total substance	IEC 60626	g/m ²	110	156	191	226	261	351
PET-film			23	50	75	100	125	190
Breakdown voltage	IEC 60626	kV	≥ 4	≥ 6	≥ 7	≥ 9	≥ 10	≥ 15
Tensile strength MD TD	IEC 60626	N/cm	≥ 50 ≥ 40	≥ 95 ≥ 75	≥ 125 ≥ 95	≥ 160 ≥ 120	≥ 200 ≥ 150	≥ 300 ≥ 200
Tensile strength after folding MD TD	IEC 60626	N/cm	≥ 35 ≥ 30	≥ 75 ≥ 55	≥ 95 ≥ 80	≥ 120 ≥ 100	≥ 150 ≥ 120	≥ 250 ≥ 150
Thermal classification	IEC 60626 UL 1446	°C				155 155		
Colour			light blue or white					

Properties	Test method	Unit	Value	Value	Value	Value	Value
Nominal thickness	IEC 60626	mm	0.37	0.42	0.45	0.72	0.82
Tolerance	IEC 60626	%	± 10	± 10	± 10	± 10	± 10
Total substance	IEC 60626	g/m ²	436	506	576	941	1081
PET-film			250	300	350	2*300	2*350
Breakdown voltage	IEC 60626	kV	≥ 18	≥ 20	≥ 22	≥ 27	≥ 30
Tensile strength MD TD	IEC 60626	N/cm	≥ 350 ≥ 300	≥ 370 ≥ 320	≥ 400 ≥ 350	≥ 500 ≥ 400	≥ 640 ≥ 560
Tensile strength after folding MD TD	IEC 60626	N/cm	≥ 300 ≥ 200	≥ 320 ≥ 220	≥ 350 ≥ 250	≥ 400 ≥ 350	≥ 560 ≥ 400
Thermal classification	IEC 60626 UL 1446	°C				155 155	
Colour			light blue or white				

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