

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.

Properties

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

Application

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

Formats

Sheets: untrimmed width 1000mm, length on request
Rolls: untrimmed width max. 1000mm
Tapes: from 10 mm width upwards

Storability

VOLTAFLEX[®] F 6642 can be stored unlimited under normal conditions (20 °C, 50 % r. h.).

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.

Technical Data

Properties	Test method	Unit	Value	Value	Value	Value	Value
Nominal thickness		mm	0.16	0.19	0.21	0.24	0.31
Tolerance	IEC 626	mm	± 0.01	± 0.02	± 0.02	± 0.02	± 0.03
Total substance	IEC 626	g/m ²	156	191	226	261	351
PET-film		µm	50	75	100	125	190
Breakdown voltage	IEC 626	kV	≥ 6	≥ 7	≥ 9	≥ 10	≥ 15
Tensile strength MD TD	IEC 626	N/10mm N/10mm	≥ 110 ≥ 90	≥ 140 ≥ 105	≥ 160 ≥ 120	≥ 200 ≥ 150	≥ 300 ≥ 200
Tensile strength after folding MD TD	IEC 626	N/10mm N/10mm	≥ 90 ≥ 70	≥ 105 ≥ 90	≥ 120 ≥ 100	≥ 150 ≥ 120	≥ 200 ≥ 150
Thermal classification	IEC 216	°C	155				
Color			light blue				

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Technical Data

Properties	Test method	Unit	Value	Value	Value	Value
Nominal thickness		mm	0.37	0.42	0.47	0.82
Tolerance	IEC 626	mm	± 0.03	± 0.04	± 0.04	± 0.08
Total substance	IEC 626	g/m ²	436	506	576	1081
PET-film		µm	250	300	350	2*350
Breakdown voltage	IEC 626	kV	≥ 18	≥ 20	≥ 22	≥ 30
Tensile strength MD TD	IEC 626	N/10mm N/10mm	≥ 350 ≥ 300	≥ 370 ≥ 320	≥ 400 ≥ 350	≥ 640 ≥ 560
Tensile strength after folding MD TD	IEC 626	N/10mm N/10mm	≥ 300 ≥ 200	≥ 320 ≥ 220	≥ 350 ≥ 250	≥ 560 ≥ 400
Thermal classification	IEC 216	°C	155			
Color			light blue			

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