IEC 60626-3

Edition 3.0 2012-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Combined flexible materials for electrical insulation – Part 3: Specifications for individual materials

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Matériaux combinés souples destinés à l'isolement électrique – Partie 3: Spécifications pour matériaux particuliers

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FOREWORD

This amendment has been prepared by IEC technical committee 15: Solid electrical insulating materials.

The text of this amendment is based on the following documents:

CDV	Report on voting
15/647/CDV	15/673A/RVC

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC web site under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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6 Specification sheets

Add the following new Sheet 352 after the existing Sheet 351:

Sheet 352

Requirements for combined flexible triplex materials of three layers – P-H/F-PET/P-H (60 μm hybrid inorganic-organic paper on both sides of PET film)

1 Description

This sheet gives the requirements for triplex materials consisting of a layer of insulating paper (P-H) having a nominal thickness of 60 μm, laminated on both sides of a polyethylene terephthalate film (F-PET).

2 Thermal classification

Experience has shown that the combined flexible materials listed in this sheet may be suitable for use in electrical apparatus with ratings up to and including the temperature range of 155 °C to 180 °C.

3 Single-layer requirements

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Use hybrid inorganic-organic paper of a nominal thickness of 60 μm, which meets the requirements of IEC 60819-1 and IEC 60819-3-2.

Use a PET film which meets the requirements of IEC 60674-1 and IEC 60674-3-2.

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4 Additional requirements

Additional requirements are given in the table below.

Property	Clause in IEC 60626-2	Units Tolerance								
Laminate nominal thickness	2	mm	0,14	0,17	0,19	0,22	0,25	0,31	0,37	0,47
Laminate thickness tolerance	2	± %	15	15	15	15	15	15	15	15
Laminate nominal grammage	3	g/m^2 ± 15 %	120	165	210	235	270	365	460	590
Film nominal thickness		μm	23	50	75	100	125	190	250	350
Tensile strength unfolded	4	N/10 mm min.								
		MD	45	65	85	105	125	170	215	275
		CMD	30	50	65	85	105	150	200	265
Tensile strength folded	4	N/10 mm min.								
		MD	45	65	85	105	125	170	215	275
		CMD	30	50	65	85	105	150	200	265
Elongation unfolded	4	% min.								
		MD	8	8	8	8	8	8	8	8
		CMD	8	8	8	8	8	8	8	8

Property	Clause in IEC 60626-2	Units Tolerance								
Electric breakdown voltage, 6 mm diameter electrodes	9	kV min. Unfolded Folded	 5 4	 7 6	 9 8	 10 8	 12 10	 15 12	 18 15	 21 18
NOTE MD = machine direction CMD = cross machine direction min. = minimum										

Sheet 340

4 Additional requirements

Replace the existing table with the following new table:

Property	Clause in IEC 60626-2	Units Tolerance				
Laminate nominal thickness	2	mm	0,10	0,15	0,18	0,21
Laminate thickness tolerance	2	± %	15	15	15	15
Laminate nominal grammage	3	g/m^2 ± 15 %	135	180	215	250
Film nominal thickness		µm	23	23	50	23
Tensile strength unfolded	4	N/10 mm min. MD CMD	 115 50	 135 55	 230 115	 155 60
Tensile strength folded, film inside	4	N/10 mm min. MD CMD	 75 50	 70 55	 120 115	 75 55
Elongation, unfolded	4	% min. MD CMD	 7 20	 7 20	 11 20	 13 20
Electric breakdown voltage, 6 mm diameter electrodes	9	kV min. Unfolded Folded	 4 4	 4 4	 6,5 6	 4 4
NOTE MD = machine direction CD = cross machine direction min. = minimum						

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Sheet 350

4 Additional requirements

Replace the existing table with the following new table:

Property	Clause in IEC 60626-2	Units Tolerance						
Laminate nominal thickness	2	mm	0,18	0,23	0,28	0,34	0,41	0,51
Laminate thickness tolerance	2	± %	15	15	15	15	15	15
Laminate nominal grammage	3	g/m^2 ± 15 %	255	295	365	455	530	670
Film nominal thickness		µm	23	75	125	190	250	350
Tensile strength unfolded	4	N/10 mm min. MD CMD	 45 32	 130 130	 175 190	 240 270	 300 345	 395 470
Tensile strength folded	4	N/10 mm min. MD CMD	 35 22	 120 120	 165 190	 230 260	 290 335	 385 460
Elongation, unfolded	4	% min. MD CMD	 10 10	 10 40	 20 50	 20 60	 20 60	 20 60
Electric breakdown voltage, 6 mm diameter electrodes	9	kV min. Unfolded Folded	 5 4	 9 8	 12 10	 15 12	 18 15	 21 NR
NOTE MD = machine direction CMD= cross machine direction min = minimum NR = not required								

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Sheet 351

4 Additional requirements

Replace the existing table with the following new table:

Property	Clause in IEC 60626-2	Units Tolerance					
Laminate nominal thickness	2	mm	0,28	0,30	0,33	0,38	0,51
Laminate thickness tolerance	2	± %	15	15	15	15	15
Laminate nominal grammage	3	g/m^2 ± 15 %	330	400	470	565	660
Film nominal thickness		µm	23	50	75	125	250
Tensile strength unfolded	4	N/10 mm min. MD CMD	 85 65	 120 95	 155 135	 195 195	 305 350
Tensile strength folded	4	N/10 mm min. MD CMD	 75 55	 110 85	 145 125	 185 185	 295 340
Elongation, unfolded	4	% min. MD CMD	 10 10	 10 10	 10 40	 20 60	 20 60
Electric breakdown voltage, 6 mm diameter electrodes	9	kV min. Unfolded Folded	 5 4	 7 6	 9 8	 12 10	 18 15
NOTE MD = machine direction CMD = cross machine direction min. = minimum							

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