SynFlex Elektro GmbH
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Mylar® A

Mylar® A is a polyethyleneterephthalate-based transparent, flexible polyester film which becomes cloudy with increasing thickness.

Attributes

Mylar® A provides the electrical industry with unique design and construction options due to the outstanding balance of its electrical properties in combination with chemical, thermal and physical properties. The polyester film is characterised by its excellent resistance to moisture and common solvents. Since it does not contain any softening agents, it does not become brittle with age when used in normal conditions.

Application

According to the manufacturer's specifications, Mylar® A is used in Class B (130 °C) systems by numerous manufacturers of electric motors. Mylar® A is used as slot insulation, phase insulation and wedges for motors and generators. Mylar® A is used as core, interlayer and final insulation for transformers, chokes and relays.

Standards

- UL approved, file no. E93687

Delivery forms

Film thicknesses in µm:

19, 23, 36, 50, 75, 100, 125, 190, 250, 300, 350

Mylar® A can be supplied:

- in slit rolls from widths of 6 mm (depending on thickness)and above.
- in rolls up to a width of 1,600 mm.

Overall diameter of the slit rolls/ rolls approx. 240/ 330 or 450 mm
Core inner diameter 76 mm, 152 mm.

Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- from widths of 10 to 240 mm and thickness of 0.125 mm

Base

Polyethyleneterephthalate

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Updated 04/24

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Mechanical	Unit of measure						
Total thickness	µm	19*	23	36	50	75	100
Tensile strength longitudinal*	N/mm²	196	216	216	216	216	206
Tensile strength transversal*	N/mm²	265	284	284	284	284	275
Elongation at break longitudinal	%	150	130	150	150	150	150
Elongation at break transversal	%	95	90	100	110	110	100
Shrinkage (30 min at 150 °C) longitudinal	%		1.2	1.1	1.2	1.2	1.2
Shrinkage (30 min at 150 °C) transversal	%		0.4	0.3	0.3	0.3	

Mechanical	Unit of measure						Test method
Total thickness	µm	125	190	250	300	350	
Tensile strength longitudinal*	N/mm²	206	206	206	186	206	ASTM D882

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Mechanical	Unit of measure						Test method
Tensile strength transversal*	N/mm²	265	265	275	196	245	ASTM D882
Elongation at break longitudinal	%	150	180	190	210	230	ASTM D882
Elongation at break transversal	%	110	125	135	150	165	ASTM D882
Shrinkage (30 min at 150 °C) longitudinal	%	1.2	1.3	1.2	1.1	1.1	ASTM D1204
Shrinkage (30 min at 150 °C) transversal	%	0.8	0.4	0.3	0.5	0.2	ASTM D1204

Electrical	Unit of measure						
Total thickness	µm	19*	23	36	50	75	100
Dielectric strength	kV	6.1	4	5.5	7	10	11.8

Electrical	Unit of measure						Test method
Total thickness	µm	125	190	250	300	350	

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Electrical	Unit of measure						Test method
Dielectric strength	kV	13.5	17.5	19	20	21	ASTM D149

*= Melinex® S

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