SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

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. It can be used at temperatures of -70 °C to 150 °C. 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

SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

Base

Polyethyleneterephthalate

SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

Mechanical	Unit of measure						
Total thickness	µm	19*	23	36	50	75	100
Tensile strength longitudinal	N/mm²	196	215	215	215	215	215
Tensile strength transversal	N/mm²	265	275	265	265	265	265
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	%		1.5	1.4	1.3	1.3	1.3
Shrinkage (30 min at 150 °C) transversal	%		0.8	0.5	0.5	0.5	0.5

Mechanical	Unit of measure						Test method
Total thickness	µm	125	190	250	300	350	
Tensile strength longitudinal	N/mm²	205	195	195	175	175	ASTM D882

SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

Mechanical	Unit of measure						Test method
Tensile strength transversal	N/mm²	245	245	245	195	195	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	1.2	1.2	1.2	1.1	ASTM D 1204
Shrinkage (30 min at 150 °C) transversal	%	0.8	0.8	0.8	0.6	0.6	ASTM D 1204

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

SynFlex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg Germany
Telefon +49-5235-968-0
E-Mail info@synflex.de

Electrical	Unit of measure					Test method
Total thickness	µm	125	250	300	350	
Dielectric strength	kV	13.5	19	20	21	ASTM D149

*= Melinex® S