

# 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

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet. Updated 04/24







Product datasheet

Mylar<sup>®</sup> A Page 2 SynFlex Elektro GmbH Auf den Kreuzen 24 D-32825 Blomberg Germany Telefon +49-5235-968-0 E-Mail info@synflex.de



Base

Polyethyleneterephthalate

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet. Updated 04/24









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

The information on this data sheet is based on the information provided by our supplier. It does not represent any specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet. Updated 04/24



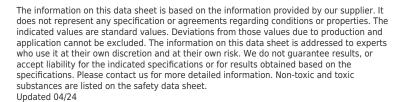






Mechanical	Unit of measure						Test method
Tensile strength transversal	N/mm²	245	245	245	195	195	ASTM D882
Elongation at break longitudinal	%	150	180	190	210	230	ASTM D882
Elongation at break transversal	%	110	125	135	150	165	ASTM D882
Shrinkage (30 min at 150 °C) longitudinal	%	1.2	1.2	1.2	1.2	1.1	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
Total thickness	μm	125	190	250	300	350	
Dielectric strength	kV	13.5	17.5	19	20	21	ASTM D149

\*= Melinex® S





