
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
- RoHS compliant according to 2011/65/EU

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 07/21



Mechanical	Unit of measure						
Total thickness	µm	19*	23	36	50	75	100
Tensile strength longitudinal	N/mm ²	196	220	200	200	210	200
Tensile strength transversal	N/mm ²	265	270	250	250	260	250
Elongation at break longitudinal	%	150	120	140	145	130	130
Elongation at break transversal	%	95	90	90	100	80	85
Shrinkage (30 min at 150 °C) longitudinal	%		1.9	1.5	1.4	1.3	1.2
Shrinkage (30 min at 150 °C) transversal	%		1.2	0.6	0.7	0.6	1.0

Mechanical	Unit of measure						Test method
Total thickness	µm	125	190	250	300	350	
Tensile strength longitudinal	N/mm ²	240	190	190	175	180	ASTM D882A

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Mechanical	Unit of measure						Test method
Tensile strength transversal	N/mm ²	200	240	220	205	200	ASTM D882A
Elongation at break longitudinal	%	145	175	195	220	240	ASTM D882A
Elongation at break transversal	%	85	110	125	145	155	ASTM D882A
Shrinkage (30 min at 150 °C) longitudinal	%	1.3	1.1	1.2	1.2	1.1	ASTM D 1204
Shrinkage (30 min at 150 °C) transversal	%	1.2	1.1	0.9	0.7	0.7	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

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Electrical	Unit of measure						Test method
Total thickness	µm	125	190	250	300	350	
Dielectric strength	kV	13.5	17.5	19	22.01	22.01	ASTM D149

*=DuPont Teijin Film U.S., Ltd. Partnership: Melinex® S

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