
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:

23, 36, 50, 75, 100, 125, 190, 250, 300, 350, 500

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 10/18

Mylar®, Melinex® sind eingetragene Marken
von DuPont Teijin Film U.S., Ltd. Partnership.



Mechanical	Unit of measure						
Total thickness	µm	23	36	50	75	100	125
Tensile strength longitudinal	N/mm²	210	220	190	190	190	190
Tensile strength transversal	N/mm²	230	260	230	230	230	230
Elongation at break longitudinal	%	120	120	140	140	140	140
Elongation at break transversal	%	100	100	100	100	100	100
Shrinkage (30 min at 150 °C) longitudinal	%	1.5	2	1	1	1	1
Shrinkage (30 min at 150 °C) transversal	%	0.8	2	1	1	1	1
Shrinkage (30 min at 200 °C) longitudinal	%	4.5	7.5	3	3	3	3
Shrinkage (30 min at 200 °C) transversal	%	3	7.5	3	3	3	3

Mechanical	Unit of measure						Test method
Total thickness	µm	190	250	300	350	500	

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Mechanical	Unit of measure						Test method
Tensile strength longitudinal	N/mm ²	190	190	190	190	150	ASTM D 882
Tensile strength transversal	N/mm ²	220	200	200	190	170	ASTM D 882
Elongation at break longitudinal	%	190	210	210	240	270	ASTM D 882
Elongation at break transversal	%	140	170	180	200	240	ASTM D 882
Shrinkage (30 min at 150 °C) longitudinal	%	1.3	1	1.3	1.3	0.9	ASTM D 1204
Shrinkage (30 min at 150 °C) transversal	%	1.3	0.5	1.3	1.3	0.9	ASTM D 1204
Shrinkage (30 min at 200 °C) longitudinal	%	3.5	3.5	3.5	3.5	2.0	ASTM D 1204
Shrinkage (30 min at 200 °C) transversal	%	3.3	2.3	3.5	3.3	1.7	ASTM D 1204

Electrical	Unit of measure						
Total thickness	µm	23	36	50	75	100	125

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Electrical	Unit of measure						
Dielectric strength	kV	4	5.5	7.7	10	11.75	13.5

Electrical	Unit of measure						Test method
Total thickness	µm	190	250	300	350	500	
Dielectric strength	kV	17.5	19	19.5	20	20	ASTM D149

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