SYNFLEX Quality Network:

Synflex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg

Phone +49 / 5235 / 968-0
Fax: +49 / 5235 / 968-222
Email: info@synflex.de
Internet: www.synflex.de

Mylar® A

Description	Mylar® A is a polyethyleneterephthalate-based transparent, flexible polyester film which becomes cloudy with increasing thickness.
Properties	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. SYNtherm® P is used as core, interlayer und final insulation for transformers, chokes and relays.
Standards	UL approved, file no. E93687. RoHS compliant according to 2011/EC.
Delivery format	Film thicknesses in µm: 19, 23, 36, 50, 75, 100, 125, 190, 250, 300, 350, 420, 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

SYNFLEX Quality Network:

Synflex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg

Phone +49 / 5235 / 968-0
Fax: +49 / 5235 / 968-222
Email: info@synflex.de
Internet: http://www.synflex.de

Mylar® A

Technical data

	Unit	Mylar® A											
Mechanical													
total thickness	µm	19	23	36	50	75	100	125	190	250	300	350	480
Tensile strength longitudinal	N/mm²	210	210	220	190	190	190	190	190	190	190	190	150
Tensile strength transversal	N/mm²	230	230	260	230	230	230	230	220	200	200	190	170
Elongation at break longitudinal	%	110	120	120	140	140	140	140	190	210	210	240	270
Elongation at break transversal	%	100	100	100	100	100	100	100	140	170	180	200	240
Shrinkage (30 min at 150 °C) longitudinal	%	1.5	1.5	2	1	1	1	1	1.3	1	1.3	1.3	0.9
Shrinkage (30 min at 150 °C) transversal	%	0.7	0.8	2	1	1	1	1	1.3	0.5	1.3	1.3	0.9
Shrinkage (30 min at 200 °C) longitudinal	%	5	4.5	7.5	3	3	3	3	3.5	3.5	3.5	3.5	2.0
Shrinkage (30 min at 200 °C) transversal	%	3.5	3	7.5	3	3	3	3	3.3	2.3	3.5	3.3	1.7

	Unit	Test method
Mechanical		
total thickness	µm	
Tensile strength longitudinal	N/mm²	ASTM D 882
Tensile strength transversal	N/mm²	ASTM D 882
Elongation at break longitudinal	%	ASTM D 882
Elongation at break transversal	%	ASTM D 882
Shrinkage (30 min at 150 °C) longitudinal	%	ASTM D 1204
Shrinkage (30 min at 150 °C) transversal	%	ASTM D 1204
Shrinkage (30 min at 200 °C) longitudinal	%	ASTM D 1204

SYNFLEX Quality Network:

Synflex Elektro GmbH
Auf den Kreuzen 24
D-32825 Blomberg

Phone +49 / 5235 / 968-0
Fax: +49 / 5235 / 968-222
Email: info@synflex.de
Internet: http://www.synflex.de

	Unit	Test method
Mechanical		
Shrinkage (30 min at 200 °C) transversal	%	ASTM D 1204

	Unit	Mylar® A											
Electrical													
total thickness	µm	19	23	36	50	75	100	125	190	250	300	350	480
Dielectric strength	kV	3	4	5.5	7.7	10	11.75	13.5	17.5	19	19.5	20	20

	Unit	Test method
Electrical		
total thickness	µm	
Dielectric strength	kV	ASTM D149

SYNTHERM® is a registered Trademark of Synflex
Mylar® is a registered Trademark of DuPont Teijin Film U.S., Ltd. Partnership