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## Mylar® A

Mylar® A is a polyethyleneterephthalate-based transparent, flexible polyester film which becomes cloudy with increasing thickness.

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### 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.

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### 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.

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### Standards

- UL approved, file no. E93687

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### 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

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## Base

Polyethyleneterephthalate

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Updated 07/21

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| Mechanical                                | Unit of measure   |     |     |     |     |     |     |
|---|-------------------|-----|-----|-----|-----|-----|-----|
| Total thickness                           | µm                | 19* | 23  | 36  | 50  | 75  | 100 |
| Tensile strength longitudinal             | N/mm <sup>2</sup> | 196 | 220 | 200 | 200 | 210 | 200 |
| Tensile strength transversal              | N/mm <sup>2</sup> | 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 <sup>2</sup> | 240 | 190 | 190 | 175 | 180 | ASTM D882A  |

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| Mechanical                                | Unit of measure   |     |     |     |     |     | Test method |
|---|-------------------|-----|-----|-----|-----|-----|-------------|
| Tensile strength transversal              | N/mm <sup>2</sup> | 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   |

\*= Melinex® S