

---

## 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. 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

---

### 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/mm <sup>2</sup> | 196 | 215 | 215 | 215 | 215 | 215 |
| Tensile strength transversal              | N/mm <sup>2</sup> | 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/mm <sup>2</sup> | 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/mm <sup>2</sup> | 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 |

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



| 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

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

