

## electrical insulation material

### Lumirror® 79.50 | FI 13018

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**Description:** Lumirror® 79.50 | FI 13018 is a plain polyester film.

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**Properties:** Lumirror® 79.50 | FI 13018 offers good mechanical properties as well as high thermal shrinkage along MD and TD and very good machinability.

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**Applications:** Lumirror® 79.50 | FI 13018 is used as electrical insulation for wires, cables and coils, capacitor encapsulation or as base film for adhesive coatings.

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**Colour:** transparent

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**Delivery forms:** Lumirror® 79.50 | FI 13018 can be delivered as customised sheet or die-cut part or on a roll. Other delivery forms upon customer request.

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## Lumirror® 79.50 | FI 13018

| Properties                      | Test method | Unit                | Value |      |
|---------------------------------|-------------|---------------------|-------|------|
| Thickness                       |             | µm                  | 19    | 30   |
| Substance yield                 |             | G/M2                | 26    | 42   |
| Yield                           |             | M2/KG               | 38    | 24   |
| Haze GARDNER                    | ASTM D 1003 | %                   | 19    | 20   |
| Breaking strength               | ASTM D 882  | daN/mm <sup>2</sup> | 20    | 20   |
| Elongation at break             | ASTM D 882  | %                   | 155   | 155  |
| Stress to produce 5% elongation | ASTM D 882  | daN/mm <sup>2</sup> | 10,5  | 10,5 |
| Breaking strength               | ASTM D 882  | daN/mm <sup>2</sup> | 29    | 29   |
| Elongation at break             | ASTM D 882  | %                   | 105   | 105  |
| Stress to produce 5% elongation | ASTM D 882  | daN/mm <sup>2</sup> | 10,0  | 10,0 |
| Shrinkage, 150°C 30 min.        |             | %                   |       |      |
| MD                              |             |                     | 33    | 31   |
| TD                              |             |                     | 10    | 9    |
| Roughness RZ                    | DIN 4768    | nm                  | 400   | 400  |
| Static side 1/ side 2           |             |                     | 0,50  | 0,50 |
| Dynamic side 1/ side 2          |             |                     | 0,40  | 0,40 |

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**Trademark information:** Lumirror® is a registered trademark of Toray Films Europe SAS.

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**Please note:**

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.

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Dr. Dietrich Müller GmbH