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# electrical insulation material

## Flexiso® BW FI 16065

**Description:** Flexiso® BW FI 16065 is a homogeneous polyimide film, which offers better properties regarding thermal conductivity and dielectric strength in comparison to Flexiso® PI FI 16000.

**Properties:** Flexiso® BW FI 16065 offers an optimal combination of electrical properties, good thermal conductivity and mechanical strength.

**Application:** Flexiso® BW FI 16065 is used for applications in sectors such as electronics and automotive industry. It can be used in electronic components like electric circuit boards or cooling elements.

**Delivery forms:** Flexiso® BW FI 16065 is available as a die-cut or molded part, roll, tape or customized cut. Other delivery forms upon customer request. The available thicknesses are 0.025 mm, 0.038 mm, 0.050 mm and 0.076 mm.

**Storage conditions:** Flexiso® BW FI 16065 should be stored between 4 – 29°C in its' original packaging.

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| Properties | Unit | Value |
|---|---|---|
| Thermal conductivity | W/mK | 0,37 |
| Tensile strength | MPa | 186 |
| Tensile modulus | GPa | 3,3 |
| Elongation | % | 80 |
| Initial tear resistance | g/µm | 30 |
| Dimensional stability | % | 1 |
| Dielectric strength 0.025 mm | V/µm | 212 |
| Dielectric strength 0.076 mm | V/µm | 177 |
| Dielectric constant at 25°C | - | 4,2 |
| Contact resistance | Ohm² | $>10^{14}$ |
| Puncture | Lb | 40 |
| Endurance | Cycles | 200,000 |
| Permeability 0.025 mm, $O_2$ | cc/m²/day | 443 |
| Permeability 0.050 mm, $O_2$ | cc/m²/day | 226 |
| Permeability 0.025 mm, WVTR | cc/m²/day | 95 |
| Permeability 0.050 mm, WVTR | cc/m²/day | 85 |
| Permeability 0.025 mm, $N_2$ | cc/m²/day | 3 |
| Permeability 0.050 mm, $N_2$ | cc/m²/day | 2 |



**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.