

## Technical films

### Flexiso® BW FI 16065

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

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

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**Applications:** Flexiso® BW FI 16065 is used for applications in the electronic and automotive industry, e.g. electronic components like circuit boards or cooling elements.

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**Delivery forms:** Flexiso® BW FI 16065 is available as die-cut or molded part, on a roll or tape, as well as customized cut. Other delivery forms and dimensions upon customer request. Flexiso® BW FI 16065 can be delivered in thicknesses of 0,25; 0,038; 0,050 and 0,076 mm.

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

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## Flexiso® BW FI 16065

Property	Unit	Value
Thermal conductivity	W/mK	0,37
Tensile strength	MPa	186
Tensile modulus	GPa	3,3
Elongation	%	80
Initial tear strength	g/μm	30
Dimensional stability at 400°C	%	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	Ohm <sup>2</sup>	>10 <sup>14</sup>
Breakdown	Lb	40
Permanent bending strength	Cycles	200.000
Permeability 0,025 mm, O <sub>2</sub>	cc/m <sup>2</sup> /day	443
Permeability 0,05 mm, O <sub>2</sub>	cc/m <sup>2</sup> /day	226
Permeability 0,025 mm, WVTR	cc/m <sup>2</sup> /day	95
Permeability 0,05 mm, WVTR	cc/m <sup>2</sup> /day	85
Permeability 0,025 mm, N <sub>2</sub>	cc/m <sup>2</sup> /day	3
Permeability 0,05 mm, N <sub>2</sub>	cc/m <sup>2</sup> /day	2

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**Trademark information:** Flexiso® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

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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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