

## Technical films

### Tecfilm® PEI TC 00422

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**Description:** Tecfilm® PEI TC 00422 is a first-class thermoplastic polyetherimide film. Tecfilm® PEI TC 00422 is an optimal alternative for electrical and electronic applications due to its combination of high temperature resistance, flame resistance, minimal moisture absorption and excellent dielectric properties. Tecfilm® PEI TC 00422 is moldable, heat-treatable and can be hot sealed, therefore leading to a great product variety.

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**Properties:** Tecfilm® PEI TC 00422 offers high temperature resistance, flame resistance, minimal moisture absorption and excellent dielectric properties.

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**Applications:** Tecfilm® PEI TC 00422 is used for electric and electronic applications.

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**Colour:** amber

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**Delivery forms:** Tecfilm® PEI TC 00422 is available in a thickness of 0,125 mm or 25 µm – 50 µm (tolerance ± 5%). Tecfilm® PEI TC 00422 can be delivered on a roll with 1270 mm width, as tape, customized cut or die-cut part, as well as self-adhesive. Other delivery forms upon customer request. Tecfilm® PEI TC 00422 has a matte texture.

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## Tecfilm® PEI TC 00422

Property	Testmethod	Unit	Value
Thickness range		µm	25 – 50 (± 5%)
Specific weight	ISO 1183	g/cc	1,27
Water absorption, submerged, 23°C, 24 h	ASTM D 570	%	1,25
Water absorption, 50% rel. humidity, 23°C, 24 h	ASTM D 570	%	0,48
Tensile modulus	ISO R 527	MPa	2800
Tensile strength at yield	ISO R 527	MPa	100
Elongation at yield	ISO R 527	%	6,0
Tensile strength at break	ISO R 527	MPa	95
Elongation at break	ISO R 527	%	50
Initial tear strength 75 µm	ASTM D1 004	N/mm	260
Coefficient of thermal expansion	IPC-TM-650	ppm/°C	52
Shrinkage, lengthwise, at 170°C	IPC-TM-650	%	0,49
Shrinkage, crosswise, at 170°C	IPC-TM-650	%	0,30
Glass transition temperature	DMA	°C	217
Breakdown strength at 125 µm	ASTM D 149	Volts/mil	6400
flammability	UL 94		VTM-0

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

**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.

Dr. Dietrich Müller GmbH