

## Technical films

### Tecfilm® TC 00117

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**Description:** Tecfilm® TC 00117 is a flame-retardant polycarbonate film.

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**Properties:** Tecfilm® TC 00117 is a flame-retardant polycarbonate film which is printable.

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**Applications:** Tecfilm® TC 00117 can be used as printed circuit board insulation, backlit aircraft in-flight panels and displays, business equipment insulation, computer rack partitions and TV/monitor insulation.

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**Delivery forms:** Tecfilm® TC 00117 is available as a thermoformed, embossed, die-cut, hydro formed or bended part. The thicknesses range from 0,250 mm to 0,500 mm. Other delivery forms upon customer request.

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**Colour:** transparent

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## Tecfilm® TC 00117

Property	Testmethod	Unit	Value
Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,32
Water absorption, 23°C saturation	ISO 62	%	0,28
Haze	ASTM D1003	%	1,0
Light transmission	ASTM D1003	%	85-88
Tensile stress at yield	ISO R527	MPa	70
Tensile stress at break	ISO R527	MPa	60
Strain at break	ISO R527	%	25
Tensile modulus	ISO R527	MPa	2200
Tear strength, initiation	ASTM D1004	kN/m	298
Tear strength, propagation	ASTM D1922	kN/m	6
Tensile heat distortion, 0,35 N/mm <sup>2</sup>	ASTM D1637	°C	150
DTUL, 1,82 N/mm <sup>2</sup>	ISO 75	°C	135
Dielectric strength, 23°C (in oil, short term, 375 micron)	IEC 243-1	kV/mm	59
Relative permeability at 50 Hz	IEC 250		2,9
Relative permeability at 1 kHz	IEC 250		2,8
Relative permeability at 1 MHz	IEC 250		2,8
Dissipation factor at 50 Hz	IEC 250		0,0026
Dissipation factor at 1 kHz	IEC 250		0,0028
Dissipation factor at 1 MHz	IEC 250		0,0117
Volume resistance	IEC 93	Ohm.m	10 <sup>14</sup>
Oxygen index	ISO 4589		33%
UL Flammability	UL94		V0, 0,250 mm
Flash point		°C	440
Self-ignition temperature		°C	605
FMVSS 302	ASTM D618		All pass
NFPA 258-NBS	ASTM E662		
Smoke chamber test (0,25 mm)			D(max)=36 D(4)=6

Dr. Dietrich Müller GmbH

## Tecfilm® TC 00117

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**Trademark information:** Tecfilm® 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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Dr. Dietrich Müller GmbH