

## Technical films

### Tecfilm® PC TC 00110

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**Material:** Tecfilm® PC TC 00110 offers excellent transparency in every thickness, high thermal resistance as well as brilliant dimensional stability for graphic applications. Furthermore, Tecfilm® PC TC 00110 has a high gloss surface and satisfies high requirements for UV-stability.

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**Properties:** Tecfilm® PC TC 00110 has high dimensional stability, transparency and thermal resistance. Tecfilm® PC TC 00110 has a high gloss surface.

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**Applications:** Tecfilm® PC TC 00110 is used as a cover or lampshade and display cover. Tecfilm® PC TC 00110 can be easily processed and can be used for different applications, e.g. metal housings.

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**Delivery forms:** Tecfilm® PC TC 00110 can be delivered on roll or as tape, a thermoformed or die-cut part as well as self-adhesive. It's available in a thickness of 0,125 mm and 0,175 mm as well as 0,25 mm – 0,375 mm and 0,5 mm – 0,75 mm. Other delivery forms upon customer request.

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## Tecfilm® PC TC 00110

Property	Test method	Unit	Value
Tensile strength at yield	ASTM D882 ISO 527	psi MPa	8500 62
General tensile strength	ASTM D882 ISO 527	psi MPa	9000 65
Tensile modulus	ASTM D882 ISO 527	psi MPa	300000 2506
Elongation at break	ASTM D882 ISO 527	% %	100-150 100-154
Impact strength 0,75 mm	ASTM D3029 ISO 6603-1	ft-lb J	23 31
Initial tear strength	ASTM D1004	lb/mil kN/m	1,4-1,8 245
Propagation tear strength	ASTM D1922	g/mil g/mil	30-55 10-20
Selective resistance (Dynatup)	ASTM D3763	ft-lb J	9 12
Perm. bending strength (MIT) 0,25 mm	ASTM D2176-69	Double folded	130
Perm. bending strength (MIT) 0,50 mm	ASTM D2176-69	Double folded	35
Thermal conductivity	ASTM D5470	W/mK	0,2
Coefficient of thermal expansion	ASTM E831 ISO 11359	(x10 <sup>-5</sup> /°F) (x10 <sup>-5</sup> /°C)	3,2 5,8
Spec. heat at 4°C	ASTM E1269	KJ/Kg-°C	1,25
Glass transmission temperature	ASTM D3417/D3418 ISO 11357	°F °C	307 153
VICAT softening temperature	ASTM 1525-00	°C	160
Heat deflection temperature 1,8 MPa	ISO 75	°C	175
Shrinkage at 150°C	ASTM D1204	%	1,40
Brittle temperature	ASTM D746	°C	-135
Density	ISO 1183	kg/m <sup>3</sup>	1200
Water absorption 24h	ASTM D570 ISO 62	%	0,35
Surface energy, 1. Surface	ASTM D5946-01		34
Surface tension	Dyne Pens	Dyne	38-40
Pencil hardness	ASTM D3363		b-hb
abrasion	ASTM D1044	Delta haze	28
Refractive index at 25°C	ASTM D542A		1,6
Light transmission	ASTM D1003	%	91
yellowness	ASTM D1925	%	0,7
clouding	ASTM D1003	%	0,4

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## Tecfilm® PC TC 00110

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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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