

Technical films

Tecfilm® PC TC 00111

Material: Tecfilm® PC TC 00111 is a transparent polycarbonate-film, that is velvety and matt on one side.

Properties: Tecfilm® PC TC 00111 offers high temperature resistance, exceptional dimensional stability as well as very good printability without preparatory treatment.

Applications: Tecfilm® PC TC 00111 can be used for multilayered print applications, control parts, radio control systems, type plates and unit covers.

Color: transparent

Delivery forms: Tecfilm® PC TC 00111 can be delivered as a die-cut or molded part, customized cut, tape and on roll as well as self-adhesive. Other delivery forms and dimensions upon customers request.

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Property	Test method	Unit	Value
Density	ISO 1183	g/cm ³	1,20
Water absorption, 23°C	ISO 62	%	0,35
Pencil hardness	ASTM D3363		B
Refractive index, 25°C	DIN 53491		1,586
Average light transmission	ASTM D1003	%	88-91
Gloss at 60°C, velvet surface	ISO 2813	%	3,0-4,5
Gloss at 60°C, matt surface	ISO 2813	%	5,0-15,0
Tensile strength at yield	ISO 527	MPa	60
Tensile strength at break	ISO 527	MPa	70
Elongation at break	ISO 527	%	120
Tensile modulus	ISO 527	MPa	2350
Initial tear strength	ASTM D1004	kN/m	245
Propagation tear strength	ASTM D1922	kN/m	10-20
Compressive strength 0,025 mm	ASTM D774	N/mm ²	0,28
Permanent bending strength 0,25 mm	MIT	Number of folds	200
Heat resistance limit 0,35 N/mm ²	ASTM D1637	°C	150
Heat deflection temperature, 1,8 N/mm ²	ISO 75	°C	135
VICAT softening temperature	ISO 306	°C	150
Spec. heat	ASTM C361	kJ/kg°C	1,25
Coefficient of thermal expansion	DIN 53752	1/°C	7 x 10 ⁻⁵
Thermal conductivity	DIN 52612	W/mK	0,20
Tension relief 135°C	ASTM D1204	%	<0,2
Brittle temperature	ASTM D746	°C	-135
Dielectric strength, 23°C in oil, 0,25 mm	IEC 243-1	kV/mm	67
Relative dielectric constant 50 Hz	IEC 250		2,99
Relative dielectric constant 1 MHz	IEC 250		2,93
Loss factor 50 Hz	IEC 250		0,0009
Loss factor 1 MHz	IEC 250		0,010
Contact resistance	IEC 93	Ohm x cm	10 ¹⁵
Surface resistance	IEC 93	Ohm	10 ¹⁵
High arc resistance	ASTM D495	S	120

Dr. Dietrich Müller GmbH

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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