

Technical films

Tecfilm® PC TC 00109

Description: Tecfilm® PC TC 00109 is a technical film made of polycarbonate.

Properties: Tecfilm® PC TC 00109 offers good impact strength as well as dimensional stability. Tecfilm® PC TC 00109 is antistatic, very transparent and resistant against low degree concentrated acids, ethanol and oils, organic solvents e.g. acetone, esters and halogens.

Applications: Tecfilm® PC TC 00109 is used as automotive glassing, CD- or DVD-base-material, window glass for greenhouses or conservatory and for break-proof machine casings.

Colour: clear

Delivery forms: Tecfilm® PC TC 00109 is available as die-cut, molded or laser-cut part and customized cut as well as self-adhesive. Other delivery forms upon customer request.

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Property	Testmethod	Unit	Value
Surface resistance	ASTM D-257	Ω	$10^6 \sim 10^7$
Electric discharge	MIL B-81705B	Sec.	<0,1
Dielectric constant	ASTM D-150		3
Density	ASTM D-792	g/cm ³	1,20
Water absorption	ASTM D-270	%	0,3
Pencil hardness	JIS K5400		HB
Adhesion strength coating	JIS D0202		100/100
Translucency	ASTM D-1003	%	78
Value of opacity	ASTM D-1003	%	2-4
Refractive index	ASTM D-1003	%	1,58
Image sharpness	JIS K 7105	%	87
Tensile strength	ASTM D-638	N/mm ²	64,7
Elongation at break	ASTM D-638	%	100
Bending strength	ASTM D-790	N/mm ²	93,2
Flexural modulus	ASTM D-790	N/mm ²	2600
Compressive strength	ASTM D-695	N/mm ²	85,3
Impact strength Charpy 23°C	JIS K7110	kJ/m ²	83,4
Notch impact strength Izod 23°C	ASTM D-256	J/m	847
Heat deflection temperature	ASTM D-648	°C	135
Coefficient of linear expansion	ASTM D-696	l/°C	7×10^{-5}
Thermal conductivity	ASTM C-177	W/mK	0,20
Internal heat	ASTM C-177	kJ/kgK	1,26
Heat shrinkage	JIS K6745	%	0
flammability	UL 94		V-0

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