

Technical films

Tecfilm® PAR TC 00182

Description: Tecfilm® PAR TC 00182 is a yellow, isotropic polyarylate film, which is matte on one side.

Properties: Tecfilm® PAR TC 00182 offers exceptional electric insulation properties and good acoustic properties. It exhibits very high thermal resistance, excellent dimensional stability and outstanding mechanical resilience. Tecfilm® PAR TC 00182 can be thermoformed and it has a defined matte degree as well as optimal flatness.

Application: Tecfilm® PAR TC 00182 can be used as insulation for coils, transformers, capacitors and for technical tapes.

Delivery forms: Tecfilm® PAR TC 00182 can be delivered on a roll, as tape, customized cut, die-cut or thermoformed part as well as self-adhesive. Other delivery forms upon customer request.

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Type	Colour	Thickness	Width	Length	Surface weight
TC 00182	yellow	6	1200	200	7,3
		8			9,7
		10			12,1
		12			14,5
		15			18,2
		20			24,2
		22			26,6
		30			36,3
		40			48,4
		50			60,5
		60			72,6
		80			96,8
		100	1090	100	121,1
		150			181,5

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Property	Test method	Unit	Value
Density	ISO 1183	g/cm ³	1,21
Glass transition temperature	ISO 11357	°C	193
Heat deflection temperature	DIN EN ISO 75	°C	175
Coefficient of thermal expansion	ISO 11359	ppm/K	60
Long-term thermal stability	DIN EN 60216 (100 µm)	°C	166
Water absorption	DIN EN ISO 62 (23°C / sat.)	%	0,26
Tensile modulus	DIN EN ISO 527 (200 mm/min) (10 µm)	MPa	57
Elongation at yield	DIN EN ISO 527 (200 mm/min) (10 µm)	%	9,2
Tear resistance	DIN EN ISO 527 (200 mm/min) (10 µm)	MPa	> 95
Elongation at break	DIN EN ISO 527 (200 mm/min) (10 µm)	%	> 110
Dielectric strength	IEC 60243-1 (1 KHz) (10 µm)	kV/mm	260
Breakdown voltage	IEC 60243-1 (1 KHz) (10 µm)	kV	2,6
Dielectric constant	IEC 60250 (1 MHz)		3,0
Dielectric loss factor	IEC 60250 (1 MHz)		0,015
Spec. contact resistance	DIN IEC 60093	Ω . cm	1,4 x 10 ¹⁶
Combustibility	UL 94		V-2
Oxygen-index	DIN EN ISO 4589	%	22
Notch impact resistance	DIN ISO 179-1/1eA	kJ/m ²	36
transmission	(300 nm) (400 nm - 500 nm)	%	< 0,05 35-55

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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.

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