

Technical films

Tecfilm® TC 00420

Description: Tecfilm® TC 00420 is a first class thermoplastic polyetherimide film. Tecfilm® TC 00420 is an optimal alternative in the area of electric and electronic applications because of its unique combination of high temperature resistance, flame resistance, low humidity absorption as well as excellent dielectric properties. Tecfilm® TC 00420 can be formed, thermally treated and hot-sealed which leads to a wide product variation.

Properties: Tecfilm® TC 00420 is high temperature resistant, flame resistant and characterizes by its excellent dielectric properties.

Applications: Tecfilm® TC 00420 can be used for many different applications in the electronic and electro industry.

Standard colour: Tecfilm® TC 00420 is delivered in amber as standard.

Delivery forms: Tecfilm® TC 00420 can be supplied with a thickness of 0.125 mm and in a thickness range of 25 µm up to 50 mm with a tolerance of ± 5 % as standard. Tecfilm® TC 00420 is provided on rolls with a width of 1270 mm, other formats and dimensions on request. Tecfilm® TC 00420 is delivered with a matt texture.

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Property	Test method	Unit	Value
Thickness range	-	µm	25 – 50 (± 5 %)
Specific gravity	ISO 1183	g/cc	1.27
Water absorption, soaked, 23°C, 24 h	ASTM D 570	%	1.25
Water absorption, 50 % rel. air humidity, 23°C, 24 h	ASTM D 570	%	0.48
Tensile modulus	ISO R527	MPa	2800
Tensile strength at yield	ISO R527	MPa	100
Tensile elongation at yield	ISO R527	%	6.0
Tensile strength at break	ISO R527	MPa	95
Tensile elongation at break	ISO R527	%	50
Initial tear resistance 75 µm	ASTM D1004	N/mm	260
Coefficient of thermal expansion	IPC-TM-650	ppm/°C	52
Shrinking longitudinal at 170°C	IPC-TM-650	%	0.49
Shrinking crosswise at 170°C	IPC-TM-650	%	0.30
Glass transition temperature	DMA	°C	217
Dielectric strength at 125 µm	ASTM D149	Volts/mil	6400
Flammability	UL 94	-	VTM-0

Trademark information: Tecfilm® is a registered trademark of the 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 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