

Technical films

Tecfilm® PC TC 00171

Material: Tecfilm® PC TC 00171 is a polypropylene-film, which is available in a natural or black color.

Properties: Tecfilm® PC TC 00171 stands out for its good electrical, mechanical and physical properties and is easily processed. Tecfilm® PC TC 00171 is classified as VTM-0 according to UL94 up to a thickness of 0,20 mm, and V-0 with a thickness of 0,41 to 3,0.

Applications: Tecfilm® PC TC 00171 can be used for different applications such as packaging material, containers or tubes.

Color: natural or black

Delivery forms: Tecfilm® PP TC 00171 is available on roll, as tape, customized cut and die-cut part as well as self-adhesive. Other delivery forms and dimensions upon customers request.

Dr. Dietrich Müller GmbH

Tecfilm® PC TC 00171

Property	Test method	Unit	Value					
Thickness		mm	0,127	0,25	0,43	0,76	1,02	1,57
Tolerance		mm	±0,025	+0,08/-0,04	+0,08/0,03	±0,05	±0,05	±0,10
Running direction at yield	ASTM D882	psi	4400					
Transverse direction at yield	ASTM D882	psi	3200					
Density	ASTM D792	g/cc	1,035					
Flammability	UL94		VTM-0	VTM-0	V-0	V-0	V-0	V-0
Oxygen index	ASTM D2863		29					
Water absorption	ASTM D570	%	0,06					
Heat deflection temp. at 66 psi	ASTM D648	°C	121					
Relative thermal index, electric	UL 746 B	°C	115					
Relative mech. Index without impact	UL 746 B	°C	115					
Surface energy	ASTM D2578	Dynes/cm	≥50*	≥50	≥50	≥50	≥50	≥50
Breakdown voltage	ASTM D149	Volt	13125	22000	24820	32400	37800	45260
Dielectric strength	ASTM D149	Volt/mil	2625	2200	1460	1080	945	730
Contact resistance	ASTM D257	Ohm-cm	3,97 x 10 ¹⁵					
Dielectric constant	ASTM D150		2,30					
Loss factor	ASTM D150		0,0019					
High arc resistance	UL 746 A		200	200	162	200	200	200
HVTR-test	UL 746 A		0,0					
Hot wire test	UL 746 A	seconds	9	7	9	12	12	12
Tracking resistance	ASTM D3638	volt	600					

*one side handled

Dr. Dietrich Müller GmbH

Tecfilm® PC TC 00171

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