

Technical films

Tecfilm® PP TC 00172

Material: Tecfilm® PP TC 00172 is a polypropylene-film, which is available in a white color.

Properties: Tecfilm® PP TC 00172 stands out for its good electrical, mechanical and physical properties and is easily processed. Tecfilm® PP TC 00172 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® PP TC 00172 can be used for different applications such as packaging material, containers or tubes.

Color: white

Delivery forms: Tecfilm® PP TC 00172 can be delivered on roll or as tape, customized cut or die-cut part as well as self-adhesive. Other delivery forms upon customer request.

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Property	Test method	Unit	Value					
Thickness		mm	0,127	0,250	0,430	0,760	1,020	1,570
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	2200 0	2482 0	3240 0	3780 0	4526 0
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

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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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