

Technical films

Tecfilm® PBT TC 00081

Material: Tecfilm® PBT TC 00081 is a flame retarding PBT film, which is VTM-0 classified according to UL94.

Properties: Tecfilm® PBT TC 00081 offers good thermal properties and dielectric strength and can be processed easily. Tecfilm® PBT TC 00081 is also classified as VTM-0 according to UL94.

Applications: Tecfilm® PBT TC 00081 can be easily processed due to its variety of properties. Therefore it can be used in many different applications.

Colour: white (standard)

Deliveryform: Tecfilm® PBT TC 00081 is available as a roll, tapes, cuts, molded or die-cut parts. Available thicknesses are 0,075 mm to 0,25 mm, 0,5 mm to 0,625 mm. Other thicknesses and dimensions upon customer request.

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Properties	Test method	Unit	Value
Tensile strength at yield	ASTM D882	psi	7200
	ISO 527	MPa	49,7
Tensile strength	ASTM D882	psi	6000
	ISO 527	MPa	41,1
Tensile modulus	ASTM D882	psi	277000
	ISO 527	MPa	1910
Elongation at break	ASTM D882 ISO 527	%	57
Impact strength 0,75 mm	ASTM D3029 ISO 6603-1	ft-lb	7
		J	10
Initial tear strength	ASTM D1004	lb/mil kN/m	1,46 255
Tear strength	ASTM D1922	g/mil	102,8
Dielectric strength	ASTM D3763	ft-lb	9
		J	12
Fold ability 0,175 mm	ASTM D2176-69		2000
Fold ability 0,625 mm	ASTM D2176-69		83
Thermal conductivity	ASTM D5470	Btu/hr/ft ² /°F/in	1,35
		W/mK	0,17
Coefficient of thermal expansion	ASTM E831 ISO 11359	x 10 ⁻⁵ /°F	3,1
		x 10 ⁻⁵ /°C	5,7
Heat capacity 4°C	ASTM E1269	Btu/lb/°F	0,3
		KJ/Kg-°C	1,31
Glass transition temperature	ASTM D3417/D3418 ISO 11357	°F	183
		°C	84
VICAT softening temperature	ASTM 1525-00	°F	346
		°C	174
Heat deflection temperature	ISO 75	°F	174
		°C	79
Shrinkage 150°C	ASTM D1204	%	0,4
Low temperature resistance	ASTM D746	°F	-211
		°C	-135
Density	ASTM D792 ISO 1183	Slug/ft ³	2,6
		Kg/m ³	1335
Water absorption 24 h	ASTM D570 ISO 62	% alteration	0,48
Surface tension, 1. layer / 2. layer	ASTM D5946-01		36/35

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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