

Technical films

Tecfilm® PET TC 00091

Material: Tecfilm® PET TC 00091 is a coextruded PET film.

Properties: Tecfilm® PET TC 00091 acts as both a carrier film for resin/glass mix and also as a permanently bonded surfacing film.

Applications: Tecfilm® PET TC 00091 is used in the manufacturing process for GRP sheets.

Delivery forms: Tecfilm® PET TC 00091 is available as a die-cut or customized cut, tape or roll as well as self-adhesive. Other delivery forms and dimensions upon customer request.

Colour: colourless

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Property	Test method	Unit	Value		
Thickness		µm	15	20	30
Substance yield		g/M2	21	25	42
Yield		M2/kg	48	36	24
Mechanical properties					
Tensile strength, lengthwise	ASTM D 882-83	Kgf/mm ²	16		
Tensile strength, crosswise	ASTM D 882-83	Kgf/mm ²	19		
Elongation at break, lengthwise	ASTM D 882-83	%	120		
Elongation at break, crosswise	ASTM D 882-83	%	80		
Other properties					
Water vapour transmission, 38°C 10/15% RH, 24 h		g/M2	35	25	17
Oxygen permeability, 24 h	ASTM D1894	cm ³ /M2	96	72	48
Relative density, 23°C	ASTM D 1505-77		1,39		
Slip, treated to untreated	ASTM D1894		0,4		
Slip, treated to treated	ASTM D1894		0,4-0,6		
Electrical properties					
Breakdown voltage	ASTM D 149-81	kV	4,7	5,4	6,4
Surface resistivity	ASTM D257-83	Ohm	>10		
Volume resistivity	ASTM D257-83	Ohm m	10		
Permittivity, 23 °C, 50Hz	ASTM D150-81		3,26		
Permittivity, 23 °C, 1KHz	ASTM D150-81		3,24		
Permittivity, 23 °C, 10KHz	ASTM D150-81		3,21		
Permittivity, 0 °C, 50Hz	ASTM D150-81		3,26		
Permittivity, 50 °C, 50Hz	ASTM D150-81		3,27		
Permittivity, 100 °C, 50Hz	ASTM D150-81		3,35		
Permittivity, 150 °C, 50Hz	ASTM D150-81		3,65		
Dissipation factor, 23 °C, 50 Hz	ASTM D150-81		0,002		
Dissipation factor, 23 °C, 1 KHz	ASTM D150-81		0,0055		
Dissipation factor, 23 °C, 10 KHz	ASTM D150-81		0,011		
Dissipation factor, 0 °C, 50 Hz	ASTM D150-81		0,004		
Dissipation factor, 50 °C, 50 Hz	ASTM D150-81		0,0015		
Dissipation factor, 100 °C, 50 Hz	ASTM D150-81		0,007		
Dissipation factor, 150 °C, 50 Hz	ASTM D150-81		0,006		

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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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