

## Technical Film

### Tecfilm® PES TC 00210

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**Properties:** Tecfilm® PES TC 00210 film possesses a combination of properties such as high resistance to heat and combustibility, low smoke emission and transparency. These coupled with light weight, high tear initiation and propagation strength, dimensional stability, chemical resistance and thermoformability make the film particularly useful in electrical, aerospace, automotive, and mass transit industries.

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**Applications:** Liquid crystal displays, Radomes Magnet wire insulation, Hot melt adhesives, Flex circuitry High temperature labels.

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**Advantages:** High heat deflection and continuous working temperature, exceptional tensile and flexural strength, High dielectric strength, exceptional mechanical properties, dimensionally stable at varying temperatures, transparency hydrolytically stable.

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**Delivery forms:** Thicknesses and Widths: .001" to .010" up to 27" wide .011" to .029" up to 26" wide finishes: All thicknesses available polished one side, matt the other (P/M). Tecfilm® PES TC 00210 can be delivered on roll or as tape, customized cut and die-cut part. Other delivery forms upon customer request.

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## Tecfilm® PES TC 00210

Properties	Testmethod	Unit	Value
Surface Resistivity	ASTM D257	Ohms	>10 <sup>14</sup>
Dielectric Strength @ .003"	ASTM D149	V/mil	4.6
Dielectric Constant	ASTM D150	1 kHz	3.5
Dissipation Factor	ASTM D150	10 kHz	0.011
Tensile Strength @yield	ASTM D882	psi	10.5
Elongation @break	ASTM D882	%	52
Tensile Modulus	ASTM D882	psi	-
Flexural Modulus	ASTM D790	psi	370
Tear Strength - prop.	ASTM D1004	g/mil	96
Specific Gravity	ASTM D792	-	1.37
Water Absorption @24 hours	ASTM D570	%	0.7
Refractive Index	-	-	1.65
Haze	ASTM D1003	%	-
Area Factor	-	in <sup>2</sup> /lb/mil	20
Continious Use Temp. - UL	-	°F	356
Heat Deflection Temp. @264 psi	ASTM D648	°F	383
Melt Temp - DSC	-	°F	-
Glass Transition Temp.	ASTM D3418	°F	437
UL Rating - UL94	-	-	-
L.O.I.	ASTM D2862	%	38
NBS Smoke	ASTM E662	Dmax	-

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## Tecfilm® PES TC 00210

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**Trademark Information:** Tecfilm® is a registered trademark of Dr. Dietrich Müller GmbH, Germany.

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**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.

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