
SynTherm® PPS

SynTherm® PPS film is from Polyphenylene Sulfide (PPS) polymer. This material is extensively used in various applications in electrical and electronics.

Attributes

SynTherm® PPS is a comprehensive range of versatile, high-performance films, resistance to high and low temperature, non-flammability, chemical resistance, Freon resistance, hydrolysis resistance, electrical properties and creep characteristics.

Application

SynTherm® PPS is used in capacitors, variable capacitors, flexible printed circuit board, motor and transformer insulation, wire wrapping, industrial tapes, mold release and acoustic membranes and diaphragms.

Standards

Class F insulating material (160 °C).
RoHS compliant according to 2002/95 EC.
VTM-0 according to UL94

Storage

Store in a frost-free environment up to 50°C. Do not store in direct sunlight. The shelf life is several years.

Delivery forms:

Total thickness in µm:

1.2, 1.5, 2, 2.5, 3.5, 4, 6, 9, 12, 16, 25, 38, 50, 75, 100, 125, 175, 250, 300, 350.

SynTherm® PPS is available:

- in tapes: depending on material thickness on request
beginning at 6mm (thin material)

- in rolls: standard width: 900mm.

The information on this data sheet is based on the information provided by our supplier. It does not represent any Specification or agreements regarding conditions or properties. The indicated values are standard values. Deviations from those values due to production and application cannot be excluded. The information on this data sheet is addressed to experts who use it at their own discretion and at their own risk. We do not guarantee results, or accept liability for the indicated specifications or for results obtained based on the specifications. Please contact us for more detailed information. Non-toxic and toxic substances are listed on the safety data sheet.

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Technical data

Items	Unit	SynTherm® PPS		
		12	25	75
Total thickness	mm	12	25	75
Specific weight	g/m ²	16	34	102
Tensile Strength	MPa	250	250	247
Elongation	%	67	73	72
Breakdown voltage	kV/mm	213	247	165
Dielectric constant 1k Hz	NA	3.02	3.02	3.02
Loss Tangent 1k Hz	NA	0.08	0.08	0.08

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