IPT ST – PI FILM

Technical Data Sheet
Last Review: 12.06.2024

IPT (ST) PI FILM is amber colored polyimide smooth film . This material exhibits excellent thermal resistance (180°C Thermal Class), anti-radiation and dielectrical properties.

TECHNICAL SPECIFICATION								
Parameter	Thickness [µm] [±10%]							
	30	40	50	75	100	125	150	200
Tensil Strength [MPa] MD	135							
Tensil Strength [MPa] TD	115							
Elongation at break [%] MD	40							
Elongation at break [%] TD	40							
Shrinkage (150°C,30min) [%] MD	1,0 at 150°C; 3,0 at 400°C;							
Shrinkage (150°C,30min) [%] TD	1,0 at 150°C; 3,0 at 400°C;							
Area weight [g/m^2]	43	57	71	106	142	175	213	284
Density [kg/m^3]	1420 [±20]							
Dielectric Strength (50 Hz) [kV]	4,5	6	7,5	9,5	11	13	15	22
Dielectric Strength (50 Hz) [MV/m]	150	150	150	130	110	105	100	90
Surface Resistance (200°C) [Ω]	10^{13}							
Volume Resistance (200°C) [Ω*m]	10^{10}							
Relative Dielectric Constant (48-62 Hz)	3,5 [±0,4]							
Dielectric Dissipation Factor (48-62 Hz)	$4*10^{-3}$							
LOI [%]	45,5							
SIZE								
Width	On Customer demand							

Application:

The product is designed as electrical insulating material for applications in motors and transformers as well as in electronic applications with continuous operation temperature ≥ 180°C.

The above technical information is presented based on the average laboratory tests and can not be used as binding technical data for design purposes, they should not be used as a basis for granting the guarantee. The user is fully responsible for the decision to use the product and for its installation. Before using it is recommended to analyse the product features considering the type of combined materials, the state of its surface and application conditions.

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