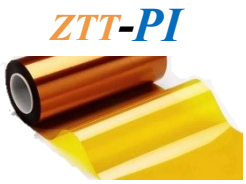
ZTT® ZI-H

Polyimide film



DESCRIPTION

ZTT® ZI-H film is a general film material which has been specifically designed and manufactured for FCCL and FPC manufacturing. Benefit from advanced chemical imidization process, this particular film has excellent electrical, thermal, mechanical and corrosion resistance properties.

TYPICAL CHARACTERISTICS

- High elongation
- High chemical resistance
- High insulation
- Low thermal coefficient of linear expansion
- Low moisture absorption
- Low shrinkage

APPLICATION

Base film

Cover layer

Stiffener

TYPICAL VALUES OF PROPERTIES

Property		Unite	Thickness (μm)				Test method
			12.5	25	50	75	
Mechanical property	Ultimate Tensile Strength (20℃)	MPa	338	332	311	298	ASTM D 882
	Ultimate Elongation (20℃)	%	85	82	78	75	
	Tensile Modulus (20℃)	GPa	4.2	4.2	4.1	4.0	
Thermal property	Shrinkage (150℃/0.5h)	%	0.02	0.03	0.06	0.08	IPC TM 650 2.2.4A
	Thermal Coefficient of Linear Expansion (100-200℃)	ppm/℃	16	16	18	18	TMA Method
Electrical property	Volume Resistivity	Ω·cm	$>10^{16}$	$>10^{16}$	$>10^{16}$	$>10^{16}$	ASTM D 257
	Dielectric Strength	kV/mm	372	309	265	209	ASTM D 149
	Dielectric Constant (1MHz)	-	3.4	3.3	3.2	3.1	ASTM D 150
	Dissipation Factor (1MHz)	-	0.006	0.006	0.008	0.008	
Physical and chemical property	Moisture Absorption (20℃/24h)	%	1.6	1.6	1.7	1.8	ASTM D 570
	Density	g/cm³	1.45	1.45	1.45	1.45	ASTM D 792

NOTE: The above values are typical test data. Please see the factory testing report for details.