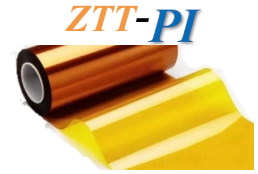


ZTT® ZI-C Polyimide film



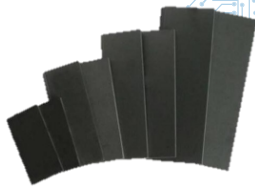
● DESCRIPTION

ZTT® ZI-C film has been specifically designed and manufactured for artificial graphite sheet production. Benefit from advanced chemical imidization process, this particular film has excellent in-plane orientation and high packing density, which permits better uniform graphite formation.

● TYPICAL CHARACTERISTICS

 High elongation
  High in-plane orientation
  High thermal conductivity

● APPLICATION



Artificial graphite sheet
(sheet)



Artificial graphite sheet
(roll)

● TYPICAL VALUES OF PROPERTIES

Property		Unite	Thickness (μm)								Test method
			25	38	50	62.5	67.5	75	100	125	
Mechanical property	Ultimate Tensile Strength (20°C)	MPa	265	253	245	237	230	232	225	210	ASTM D 882
	Ultimate Elongation (20°C)	%	112	109	111	113	115	120	110	110	
	Tensile Modulus (20°C)	GPa	2.7	2.7	2.7	2.7	2.7	2.8	2.9	3.0	
Thermal property	Shrinkage (150°C/0.5h)	%	0.04	0.06	0.06	0.06	0.06	0.08	0.06	0.06	IPC-TM-6502.2.4A
	Thermal Coefficient of Linear Expansion (100-200°C)	ppm/°C	35	35	36	34	35	36	32	35	TMA Method
Physical and chemical property	Moisture Absorption (20°C/24h)	%	1.6	1.6	1.8	2.0	2.3	2.8	2.8	3.0	ASTM D 570
	Density	g/cm³	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.41	ASTM D 792

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