

6051 polyimide film



No.: JB/T2726-1996

I. Scope of application

The polyimide film is produced by "salivation method", which has high temperature resistance, radiation resistance and excellent dielectric properties. Suitable for H-class motor, electrical insulation and other electrical insulation materials.

Second, the technical requirements

1. Appearance: The surface of the film is smooth and clean, and there should be no wrinkles, tears, particle bubbles, pinholes and foreign impurities. The edges are neat and undamaged, and the film is supplied in rolls.

2. measure

1). Deviation from allowable thickness: recommended thickness, and can also be supplied according to user's requirements.

2). Width and length: according to customer requirements.

3. performance requirement

serial number	Performance index		unit	Index value (TY6051)							
				25	40	50	75	100	125	175	200
one	thickness		μm	25	40	50	75	100	125	175	200
2	tolerance		μm	+4 -3	+6 -5	+7 -6	+8 -6	+8 -7	+8 -8	+8 -8	+8 -8
three	density		Kg/m ³	1420±20							
four	stretching intensity	vertical cross wise	Mpa	≥135 ≥115							
five	break apart extensibility	vertical cross wise	%	≥35		≥50			≥50		
six	Receive heat minification	150°C 400°C	%	≤1.0 ≤3.0							

seven	Power frequency electrical strength	Average individual value	MV/m	≥ 150 ≥ 100	≥ 130 ≥ 80	≥ 110 ≥ 70	≥ 100 ≥ 60	≥ 100 ≥ 60
eight	Volume resistance (200°C)		Ω.m	≥1.0X10 ¹⁰				
nine	Surface resistance (200°C)		Ω	≥1.0X10 ¹³				
10	Relative dielectric constant (48~62Hz)		-	3.5±0.4				

III. Packaging marking, storage and transportation

1. The film is supplied as a roll on the die; Each roll is packed and sealed with plastic tape, and placed in a dry and clean box.
2. Each package should indicate the model, product name, specification, batch number, gross weight, factory name and manufacturing date. And have the product inspection certificate. At the same time, the words "moisture-proof" and "impact-proof" shall be marked on the package.
3. The film should be stored in a dry and clean room, with a storage period of two years from the date of delivery. If the storage period exceeds the standard, the qualified film can still be used.
4. During storage and transportation, moisture and mechanical damage should be avoided.

11	Dielectric loss factor	-	≤4.0X10 ⁻³
12	Long-term heat resistance temperature index	°C	≥180