



6051 polyimide film (tape)



Standard number: 2006 GB/T13542.6-2006

Application range: The polyimide film is to be produced by cast method, which has High temperature resistance, resistance to radiation and excellent dielectric properties, applicable to electrical insulating of the class H electric motor and other electrical equipments, and other use electrical insulating materials.

A. Technical requirements

1. Appearance: Film surface is bright and clean, not due, tear, particle, bubbles, Pinhole and foreign material defects; Edge is tidy, without damage; Films supply in rolls.

2. Size

2.1. Thickness and allowable deviation:

The standard thickness(um)	12.5	25	40	50	75	100	125	175	200
The allowable deviation(um)	+1	+2	+2	+2	+3	+4	+4	+5	+5
	-1	-1	-2	-2	-3	-3	-4	-5	-5

Note: Supplying according to customer request with thickness 12.5-22.5 um, allowable deviation can be negotiated by both sides.

2.2. Width: no less than 250 mm, deviation +/-1.6mm. According to the needs of the users, tape can be cut with different specifications.

2.3. Length: Supplying according to the requirement of customer.

2.4. Performance requirements

Serial number	Index name	Unit	Index				
			25um	40um	50um	75um	100um
1	density	Kg/m ³	1425±10				

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2	tensile strength	horizontally	Mpa	≥165			
		vertically					
3	elongations	horizontally	%	≥40	≥50		
		and vertically					
4	shrinkage rate horizontally and vertically 150°C 400°C		%	≤0.35			
				≤2.5			
5	industrial frequency electric strength 48H2~62H2		v/um	≥240	≥200	≥180	≥160
6	surface resistance, 200°C		Ω	≥1.0X10 ¹⁴			
7	Volume resistance, 200°C		Ω.M	≥1.0X10 ¹⁰			
8	Relative permittivity 48~62Hz		-	3.5±0.4			
9	dielectric power factor 48~62Hz		-	≤4.0X10 ³			
10	long-term heat resistance temperature index		-	≥180			

B. Packaging, Marks, Storage and Transport

1. Film should be wrapped in a tube on core and supply in rolls; Each volume in a plastic bag packing and seal, placing in dry and clean case
2. Each box packaging should specify model or type, product name, specification, batch number, gross weight, net weight, manufacturing date, manufacture's name, and product test report. At the same time, marked "Moisture proof" "Prevent Impact" and other words in packing body.
3. Film should be stored in a dry and clean indoor, from the date of original shipment, shelf life for two years, more than storage life according to the standard check again, qualified can still use.
4. In storage and transport process, should avoid damp and mechanical damage.