



New Century (Tianjin) Polyimide Films Insulating Materials Co., LTD

TECHNICAL DATA SHEET

Polyimide Film

NCPI Polyimide Film is produced by cast method, which has High temperature resistance, radiation proof and excellent dielectric properties. It is applied to electrical insulations of the H class electric motor, equipments , and other electrical insulation.

Table 1 Thickness and Tolerance:

Thickness(um)	12.5	25	40	50	75	100	125	175	200
Tolerance(um)	+1	+2	+2	+2	+3	+4	+4	+5	+5
	-1	-1	-2	-2	-3	-3	-4	-5	-5

Note: thickness 125-225 um is also available; Tolernace could be adjusted according to customer requirements;

Table 2 Properties

No.	Item	Unit	Standard				
			25um	40um	50um	75um	100um
1	density	Kg/m ³	1425±10				
2	tensile strength	horizontally	≥165				
		vertically					
3	elongations	horizontally and vertically	≥40	≥50			
4	shrinkage rate 150°C 400°C	horizontally	≤0.35				
		vertically	≤2.5				
5	industrial frequency electric strength 48Hz~62Hz	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	temperature	-	≥180				



UL No.:E349759

※ For more information of Polyimide Film or other High Performance Materials, please contact us as following:

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