

KPT Polyimide High Temperature Tubing (Kapton Tubing)

Product introduction:

KPT high temperature application polyimide tube (kapton tubing), has good mechanical and useful performance at low and high temperature, can keep the dielectric strength and size stability at low and high temperature environment.

It's suitable for F, H Level application and -35~180°C high temperature environment.

Application range:

- 1, space technology, F,H level electric machine, electrical insulation, PTC heater, heat protector Battery splice.
- 2, FPC (Flexible printing circuit board), PTC electrothermal film, TAB (Pressure sensitive adhesive tape base materials), spaceflight, aviation.
- 3, Computer, electromagnet wire, transfer, temperature sensor, temperature controller.
- 4, Motor, audio, mobile phone, computer,.
- 5, Smelting, mining, electronic component industries, automobile, traffic, atomic power industries, and other electronic enterprise.

Product Properties:

No.	Properties		Unit	Value	
				0.15mm	0.20mm
1	Appearance		—	can not have bubbles, impurities and damage, no obvious defects	
2	Thickness Tolerance		mm	0.02	0.04
				-0.02	-0.04
3	Tensile Strength	Average Value	MPa	100	140
		Individual value		80	120
4	Volume resistivity		Ω.m	Normalcy	
				200±2°C	
				Flooding after 24h	
5	Working	Normalcy	Average Value	KV	10
					8.5

	frequency electric strength	Normalcy After Bending	Individual value	—	6	4.5	
			Average Value		7.5	4.8	
		200±2°C	Individual value		5.5	2.5	
			Average Value		8.5	5	
		Flooding after 24h	Individual value		5.5	4	
			Average Value		5	3.5	
					Individual value	4	3
		6	Relative Dielectric Constant 50Hz				3-4
7	Dielectric Loss Factor 50Hz				≤5.0×10 ⁻²		
8	Water Absorption 20±5°C flooding after 24h		%		≤3		

