Polyimide CR Film

In addition to the very good performance of high and low temperature resistance, electricity insulativity, radiation and etching resistance, it also has very excellent performance of corona resistance and thermal conductivity. The corona polyimide film applies to turn-insulating， major insulation，external insulation of big coil and corona resistance protective layer of large tractive motor, conversion motor, wind driven generator, special motor etc.

I.Type

TY6051-CR corona resistance polyimide film

TY6251-FCR (single side, double sides), painted F46 glue on the surface of the singe side or double sides of the corona resistance polyimide film. Slit with different width after drying and rolling.

II.Technical requirement

1. Appearance

The color of the corona resistance polyimide film is amber and semi-transparent. The film should be smooth and flat with neat non-torn edges and without any defects such as wrinkles, tears, gels blisters , bubbles, pinholes and foreign impurities

III.The Thickness and Its Tolerance

Unit : mm

TYPE	TOLERANCE	
TY6051-CR	0.020--0.040 0.041--0.075	±0.002 ±0.004
Ty6051-FCR	0.030--0.050 0.051--0.100	±0.003 ±0.005

Remarks: We can meet your needs of all kinds of specification of corona resistance polyimide film and adhesive tape.

IV. width and length

We can meet your needs of different width and length.

IIV. Performance

Technical requirement

Performance

				TY6051-CR	TY6251-FCR SING SIDE	TY6251-FCR DOUBLE SIDE
1	Coronaresistantlife	pulse frequenct ;20khz ;pulse duty ratio ;50%pulse wave form; fangbo;polarity;bipolar;Vp-p2kv;pulse rising time (no-load);50ms;overcurrent (alarm cut test;50MA	MIN	≥300	≥300	≥300
2	Tensile strength		mpa	≥135	≥80	≥80
3	Elongation		%	≥40	≥40	≥40
4	Frequency electrical strength	Lowest value	MV/m	≥200	≥120	≥100
5	Surface resistivity 200℃		Ω	≥1.0×10^{14}	≥1.0×10^{14}	≥10×10^{14}
6	Volume resistivity 200℃		Ω .cm	≥1.0×10^{12}	≥1.0×10^{12}	≥1.0×10^{12}
7	Relative dielectric constant 40Hz~62Hz		—	3.5 ± 0.4	3.5±0.4	3.5±0.4
8	Dielectric loss factor 48Hz~62Hz		—	≤4.0×10^{-3}	≤4.0×10^{-3}	≤4.0×10^{-3}
9	Peelstrength	1) .Single face; Facing the back glue; ADhesive with copper 2)Double face glue face; Glue to glue face; Adhesive with copper	N/cm	—	≥3.5 ≥3.5	≥3.5 ≥3.5

Remarks: The test method comply to GB/T21707-2008< frequency conversion speed regulation special use 3 items asynchronous motors insulation regulation > and GB/2726-1996testtest.