

CR/FCR POLYIIMDE FILM

Product No.:MAF04

Q-MANTIC® CR polyimide film is developed specifically to withstand the damaging effect of “Corona”. The CR type polyimide film not only maintains its excellent physical, electrical, thermal, mechanical and chemical properties, but also has good corona resistance and thermal conductivity. FCR film is FEP coated CR type polyimide film with corona resistant property.

Characteristic

- High corona resistant property
- High heat conductivity
- Cut-through resistant
- High dielectric strength
- High bond strength

Type

- CR Type Base film
- FCR Type One side coated FEP (F46) resin
- FCRF Type Double sides coated FEP (F46) resin
- Note: The coating thickness can be adjusted from 5~12.5um according to customer’s requirement.



Characteristic

Type	Tolerance	
MAF04CR	0.020 ~ 0.040	±10%
	0.041 ~ 0.075	±0.004
MAF04FCR	0.030 ~ 0.050	±10%
	0.051 ~ 0.100	±0.005

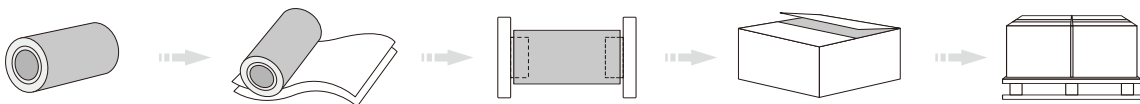
Type	TY6051-CR	TY6251-FCR Single side	TY6251-FCR Double sides
Corona resistant life 1.Pulse frequency 20khz pulse duty ratio 50% pulse wave form: square wave; Polarity:bipolar;Vp-p2kv, pulse rising time (no-load): 50ns;overcurrent(alarm cut test);50MA 2.Test electrode: Φ 6mm cylinder electrode /plate electrode, the distance between the upper and lower electrodes is the thickness of the sample (hour) ≥	110	110	110
Tensile Strength (MPa) ≥	115	78	78
Elongation at Rupture (%)≥	35	30	30
Dielectric Strength(MV/m) ≥	150	90	90
Surface Resistivity(Ω) ≥	1.0×10 ¹³	1.0×10 ¹³	1.0×10 ¹³
Volume Resistivity(Ω.m) ≥	1.0×10 ¹⁰	1.0×10 ¹⁰	1.0×10 ¹⁰
Peelling1. Single side: Adhesion to film Adhesion to copper 2.Double sides: Adhesion to adhesion Adhesion to copper (N/CM) ≥	-----	2.3 2.3	2.3 2.3

Applications

- Wire insulation for tractor motor
- Generators
- High-voltage industrial motors
- Insulation and corona protection for extra large coil

Packing

- Min. slitting width: 6mm
- Core ID: 1.5” /3” / 6”
- Winding: Pad type/Step-pac Type/Universal Type



Chengdu Q-Mantic Industrial Products Co., Ltd.

Tel: +86 28 64660018
E-mail: sales@cdq-mantic.com
Website: www.cdq-mantic.com