CONSULTEC

CR Type Polyimide Film

Property

CORONA Resistance Polyimide film was 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.

Type

CR Type: Base film

FCR Type: One side coated FEP (F46) resin

FCRF Type: Double sides coated FEP (F46) resin

Specifications

Type	CR	FCR	FCRF
Thickness（μm）	27	38	50
Tolerance（μm）	±2	±3	±3
Width（mm）	6~1000	6~500	6~500
Tolerance（mm）	±0.4~±2.0	±0.4~±2.0	±0.4~±2.0

- ✧ The coating thickness can be adjusted from 5~12.5um according to customer's requirement.
- ✧ Different width can be cut according to customer's requirement.
- ✧ The length is 500M~1000M; The number of roll with splices wills not over 25% in a order. The max splice number in one roll is 3, and min splice length is 100M; the max splice number in one pad is 5, and min. splice length is 50M.
- ✧ CR Type: with polyimide film adhesive tape splices.
- ✧ FCR type & FCRF type: heat seal splices

Typical Physical Properties

Items		CR	FCR	FCRF
Corona Resistance （hr）At 1KV，at 20KH 90℃±2℃，Pulse ascend time: 400ns		≥ 50	≥ 50	≥ 50
Dielectric Strength（MV/M）		≥ 200	≥ 120	≥ 100
Tensile Strength （MPa）		≥ 120	≥ 80	≥ 80
Elongation at Rupture（%）		≥ 40	≥ 40	≥ 40
Peel Strength（F to F）（N/25mm）		---------	≥ 6	≥ 6
Shrinkage （%）	150℃， 0.5 h	≤1.0	≤1.0	≤1.0
	400℃， 0.5 h	≤3.0	≤3.0	≤3.0
Surface Resistivity （Ω）		1 x 1015	1 x 1015	1 x 1015
Volume Resistivity（Ω.cm）		1 x 1015	1 x 1015	1 x 1015
Dielectric Constant（48~62Hz）		3.5	3.5	3.5
Dissipation factor（48~62Hz）		≤0.0035	≤0.0035	≤0.0035

- ✧ The shelf time is 2 years from the date of leave factory. When shelf time is over 2 years, the film still can be used if the inspection result is ok.

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