
Kapton® CRC polyimide film

Kapton® CRC is a polyimide film specially developed for the effects of partial discharge which may cause ionisation and possible losses of insulating materials.

Attributes

Kapton® CRC combines the excellent features of Kapton® HN polyimide film with the advantages of a very glow-discharge resistant surface. Using a Kapton® CRC polyimide film improves the resistance of the insulating systems of high-voltage generators or motors significantly.

Application

- rotating electrical machines
- electrical insulation isolation
- generators
- traction motors
- transformers
- insulation of profile conductors and cables – specially in electrically highly utilized systems

Standards

- UL liste, File Number E 39505
- RoHS compliant acc. to 2011/65/EC

Delivery forms

Film thickness in µm:

25

Base

Polyimide

Typical mechanical properties	Unit of measure		Prüfmethode
Nominal thickness	µm	25.4	ASTM D-374-94
Tensile strength longitudinal	MPa	228	ASTM D-882-91
Tensile strength transversal	MPa	228	ASTM D-882-91
Elongation at break longitudinal	%	70	ASTM D-882-91
Elongation at break transversal	%	70	ASTM D-882-91

Typical electrical properties	Unit of measure		Prüfmethode
Total thickness	µm	25.4	
Dielectric strength	kV/mm	252	ASTM D-149-81
Volume resistivity	Ω x cm	>10 ¹⁶	ASTM D-257-78

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