

Polyimide FEP Film



Dexlu Item No.: D010101(FH) / D010102(FHF)

Properties

Polyimide FEP(F46) film (similar to Kapton FN) is made of coating Polyimide film with FEP resin(F46) on one side(FH) or double sides(FHF) and through the sintering process at high temperature, which combines the excellent properties of Polyimide film and FEP resin of high& low temp resistant, radiation resistant, corrosion resistant, excellent electrical properties, superior dimensional stability and heat sealable properties. It performs successfully in the wide range of temperature as low as -112F(-80c) and as high as +500F(+260c). Polyimide FEP(F46) film (similar to Kapton FN) is widely used for insulation in motor, electrical apparatus and wrapping of cable and magnet wire, heater manufacture etc.

Data Form

Item	Properties		Unit	Values	
				FH	FHF
1	Thickness		um	30~50	51~100
2	Thickness Tolerance		%	10	
3	Tensile Strength	MD	MPa	≥110	
		TD		≥100	
4	Elongation at rupture		%	≥50	
5	Breakdown Strength	Average	MV/m	≥160	≥130
		Individual		≥120	≥100
6	Peel Strength (FEP-FEP)		N/25mm	≥6	
7	* Volume Resistivity 20+/-5c		Ω·cm	≥1x10 ¹⁵	
8	* Surface Resistivity 20+/-5c		Ω	≥1x10 ¹³	
9	* Dielectric constant (50Hz)		---	2~3.5	
10	* Loss tangent (50Hz)		---	≤0.004	

The items marked * are the inherent properties of Polyimide Film, which are not showed on the testing report for outgoing factory.

Application



Specification

1. Other construction is available upon request; FEP layer thickness: 0.01mm +/-10%
2. Width: 10 ~ 520mm; Core ID:76mm; Roll OD:200~240mm
3. Min Qty: 200kgs each size in a lot.

Note: The values noted in above technical specification are given only for our customers' reference and should not be used in writing specifications.