

# Polyimide FEP Film



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

## Properties

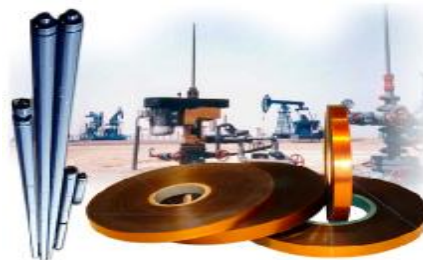
Polyimide F46 film is achieved by coating Polyimide film with F46 resin(FEP) on one side(FH) or double sides(FHF) and through the sintering process at high temperature, which combines the excellent properties of Polyimide film and F46 resin, high& low temp resistant, radiation resistant, excellent electrical 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), widely used for insulation in motor, electrical apparatus and wrapping of cable and magnet wire. It can be melt and formed soon as desired at defined temperature.

## 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 <sup>15</sup>	
8	* Surface Resistivity	20+/-5c	Ω	≥1x10 <sup>13</sup>	
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.