

H POLYIMIDE FILM**Product No.:MAF01**

MAF0125/MAF0150/MAF0175/MAF01100/MAF01125/MAF01150/MAF01175/MAF01200/MAF01225/MAF01250

Q-MANTIC® H Polyimide Film is a common polyimide film achieved by polycondensation of PMDA and ODA in strong polar solvents and through the process of forming film and lamination treatment at high temperature, which possesses excellent physical, chemical and electrical properties, atomic radiation resistant, solvent resistant, low & high temperature resistant. It performs successfully in the wide range of temperatures as low as -269°C/-752F and as high as 400°C/752F. Because of its unique excellent properties, it is the most ideal choice in many applications.

Features

- Temp resistance from -452F to over 752F(-269 °C to over 400 °C)
- Excellent of electrical, chemical and physical property
- Flame retardant
- Radiation retardant
- Easy coating property

**Characteristic**

Thickness Nominal (μm)	25	50	75	100	125	150	175	200	225	250
Appearance	Transparent or semi-transparent golden film with smooth and flat surface and without any needle cavities, bubbles or electrically conductive impurities.									
Thickness Tolerance (μm)	+4	+6	+7	+8	+10	+10	+10	+12.5	+15	+15
	-3	-5	-6	-6	-7	-8	-10	-12.5	-15	-15
Density (g/cm ³)	1.42±0.02									
Width (mm)	1040	1040	1028	1020	920	520	520	520	520	520
Tensile Strength (Mpa) ≥	MD:135 TD:115									
Elongation at Rupture(%) ≥	40	40	40	40	40	40	60	60	60	60
Dielectric Strength (MV/m) ≥	180	180	180	160	160	160	120	120	120	120
Shrinkage (%) ≤	150°C:1.0 400°C:3.0									
Surface Resistivity (Ω) ≥	1.0×10 ¹³									
Volume Resistivity (Ω·m) ≥	1.0×10 ¹⁰									
Dielectric Tangent (106H) ≤	3-4									

Application

- For wrapping of magnet wire and cable
- Slot liner insulation
- Interlayer insulation in motor, transformer
- Polyimide adhesive tape or polyimide laminates

Packing and Storage

- Min. slitting width: 6mm
- Core ID: 3" / 6"
- Storage: Keep in room temperature. Remove package before use. Unused parts are wrapped in original packaging to avoid moisture absorption. It is recommended to be used up in 6 months.

