

Polyimide Film Adhesive Tape

Polyimide Film Adhesive Tape/Kapton Tape

ESONE Polyimide film adhesive tape/Kapton Tape is ideal for applications that require high dielectric strength in extreme temperature conditions. These tapes provide excellent resistance to high heat, solvents, and abrasion. Our extensive range of polyimide tapes includes options with either single-sided or double-sided adhesive, available with either acrylic or silicone pressure sensitive adhesives, all specifically designed for high-temperature electrical applications.

Advantages

- **Easy Peeling:** Strong adhesion that leaves no residue upon removal.
- **Customized Adhesion Levels:** Low, medium, and strong adhesion options tailored to customer specifications.
- **High-Temperature Resistance:** Excellent heat insulation, ideal for protecting electronic and electrical components.
- **Environmentally Friendly:** Odorless with reliable electrical insulation and high voltage withstand capabilities.
- **Flame Retardant:** Our products comply with UL 510 flame retardance standards and meet UL94 V-0 requirements, providing enhanced safety for users in industries such as electronics, aerospace, and automotive.
- **Excellent Dielectric Property:** This imported film provides excellent dielectric properties, making it ideal for H-class Kapton tape electrical insulation with a 5 kV voltage withstand capability.

Applications

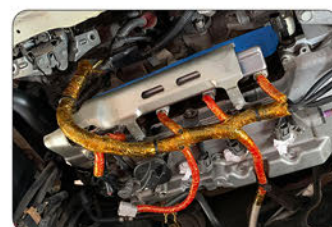
- **High-Temperature Insulation:** Ideal for insulating high-temperature components in devices like 3D printers and circuit boards.
- **Electrical Insulation:** Provides strong adhesion and dielectric strength, preventing short circuits in transformers, capacitors, and motors.
- **Flexible Circuit Board Manufacturing:** Essential for bonding layers in flexible printed circuit boards, maintaining stability during soldering.
- **Aerospace and Automotive:** Withstands harsh conditions, bonding materials and insulating components in high-performance systems.



Ensuring quality and performance in the electro-mechanical industry



PCB masking and battery packing



Protecting electrical wires in harness applications.

Polyimide Film Adhesive Tape Properties

Model Name	Adhesive Type	Total Thickness mm(mil)	Back Thickness mm(mil)	Adhesion to Steel N/cm(oz/in)	Tensile Strength N/cm(lb/in)	Elongation (% at break)	Dielectric Strength volts	Operating Temperature °C(°F)
YS7705A	Acrylic	0.05(2)	0.025(1)	2.7(25)	53(30)	50	6,500	-29 to +177 (-20 to +350)
YS7706A1	Acrylic	0.065(2.5)	0.025(1)	3.3(30)	53(30)	50	7,000	-29 to +177 (-20 to +350)
YS7706A2	Acrylic	0.065(2.5)	0.025(1)	2.7(25)	53(30)	50	7,000	-29 to +177 (-20 to +350)
YS7706S1	Silicone	0.065(2.5)	0.025(1)	2.2(20)	53(30)	50	6,500	-73 to +260 (-100 to +500)
YS7706S2	Silicone	0.065(2.5)	0.025(1)	2.7(25)	53(30)	50	6,500	-73 to +260 (-100 to +500)
YS7709A	Acrylic	0.090(3.5)	0.050(2)	3.3(30)	88(50)	75	10,000	-29 to +177 (-20 to +350)
YS7709S1	Silicone	0.090(3.5)	0.050(2)	2.2(20)	88(50)	75	10,000	-73 to +260 (-100 to +500)
YS7709S1	Silicone	0.090(3.5)	0.050(2)	2.7(25)	88(50)	75	10,000	-73 to +260 (-100 to +500)
YS7712S	Silicone	0.012(4.7)	0.075(3)	2.7(25)	150(87)	75	12,000	-73 to +260 (-100 to +500)
YS7716S	Silicone	0.0165(6.5)	0.125(5)	2.7(25)	263(150)	75	17,000	-73 to +260 (-100 to +500)
YS7718S	Silicone	0.018(7)	0.125(5)	2.7(25)	263(150)	75	17,000	-73 to +260 (-100 to +500)
YS7720S	Silicone	0.020(8)	0.125(5)	2.7(25)	263(150)	75	17,000	-73 to +260 (-100 to +500)



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