

Kapton

KAPTON® film possesses a unique combination of properties which give it the ability to maintain its excellent physical, electrical, and mechanical properties over a wide temperature range for many different industrial applications.

KAPTON® is synthesized by polymerizing an aromatic dianhydride and an aromatic diamine. It has excellent chemical resistance; there are no known organic solvents for the film. KAPTON® does not melt or burn as it has the highest UL-94 Flammability rating: V-0. The outstanding properties of KAPTON® permit it to be used at both high and low temperature extremes where other organic polymeric materials would not be functional.

Adhesives are available for bonding KAPTON® to itself and to metals, various paper types, and other films.

KAPTON® film can be used in a variety of electrical and electronic insulation applications where many of these are based on the excellent balance of electrical, thermal, mechanical, physical, and chemical properties of KAPTON® and its wide range of temperatures. It is this combination of useful properties at temperature extremes that makes KAPTON® a unique industrial material.

Kapton® Types

KAPTON® Type HN, all-polyimide film have been successfully used in applications at temperatures as low as -269°C (-452°F) and as high as 400°C (752°F). Type HN film can be laminated, metallized, punched, formed, or adhesive coated. It is available as 0.5 mil, 0.75 mil, 1 mil, 2 mil, 3 mil, and 5 mil films.

KAPTON® Type FN, a Type HN film coated on one or both sides with TEFLON® FEP fluoropolymer resin, provides heat sealability, a moisture barrier, and enhances chemical resistance. Type FN is available in a number of combinations of polyimide and TEFLON® FEP thicknesses.

Service is Our Business

All technical advice and recommendation are rendered by Seller free of charge. While based on data believed to be reliable, seller assumes no responsibility.