

# Aluminized Kapton® Film

## Product Description

KGKtape is a leading manufacturer of aluminized Kapton® film, a widely used spacecraft material. There are many technical challenges associated with developing a spacecraft. The harsh space environment requires technical materials that function as a passive thermal management system.

## Product Construction

Backing	Adhesive	Color	Standard Roll Length
Polyimide	—	Silver	520mm*1000m

### Typical Physical Properties

**Note:** The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Items	Standard Value	Result
Thickness	100±3um	100um
Aluminum thickness	0.1-0.2um	PASS
Tensile Strength(Vertical)	≥140 MPa	167MPa
Tensile Strength(Horizontal)	≥130 Mpa	143MPa
Elongation(Vertical)	≥65%	73%
Elongation(Horizontal)	≥65%	86%
Light Transmittance	≤1%	PASS
Folding endurance	≥10,000	PASS
Flammability rating	94V-0	PASS
Surface resistance	≤1Ω/cm2	PASS

## Application Ideas

The material protects the spacecraft by reflecting thermal radiation. This results in minimal heat transfer to and from the spacecraft. Unlike polyester-based materials, aluminized polyimide film has excellent flame-retardant properties.

### Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 50% R.H. in the original carton.

### Shelf Life

To obtain best performance, use this product within 3 years from date of manufacture.