



Acktar Diffusive White Coated Polyimide Film for Thermal Management in Space

Product Description:

Protective Film	To be removed
White Coating	< 5 μm typical
Polyimide - Substrate	~ 75 μm typical
Aluminum Layer - Optional	< 1 μm typical
Adhesive Layer - Optional	60 μm typical

Acktar White™, Space qualified coated Polyimide films deliver high emissivity and low solar absorptivity together with a wide range of features and advantages.

Main Features:

- Diffusive White
- High emissivity, Low solar absorptivity
- Broad operational temperature range
- Flexible, conformable, ultra-thin film
- Die cuts / kiss-cuts - any shape / quantity
- ATOX resistant
- Optional adhesive backing
- Durable and biocompatible
- REACH and RoHS compliant

Typical Applications:

- Aerospace, satellites and instruments
- Passive thermal management



Optical And Thermo-Radiative Properties

Emissivity: > 0.7 (Over wavelength band 3-30 μ m)

Solar absorptivity: < 0.4

Specifications

Working Temperatures	<ul style="list-style-type: none">• Long term: -250°C to +250°C• Short term: up to +300°C
Coating chemical content	100% Inorganic
Substrate	
Material	Polyimide
Thickness	~75 μ m - other thicknesses available upon request
Coatings thickness	
Acktar White	< 5 μ m
Abrasion resistance	Moderate
Shelf life	Minimum of 12 months after the date of shipment provided that the material is stored in its original unopened container under normal indoor conditions – approx. +20°C / RH50%.
Delivery formats	<ul style="list-style-type: none">• Rolls (width: 200/300mm, length: 10/20/50m)• Die-cuts / Kiss-cuts – any shape

*All data should be considered typical/representative only