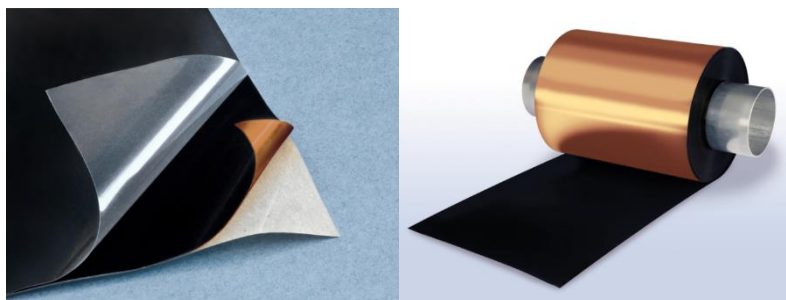


Acktar Diffusive Black Coated Polyimide Film for Thermal Management in Space



Product Description:

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

Acktar **Fractal Black™**, **Space qualified** coated Polyimide films deliver the lowest reflectance in-the-industry across the spectrum from UV thru VIS to SWIR together with a wide range of features and advantages.

Main Features:

- Diffusive and super black
- UV thru VIS to SWIR
- High emissivity
- 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

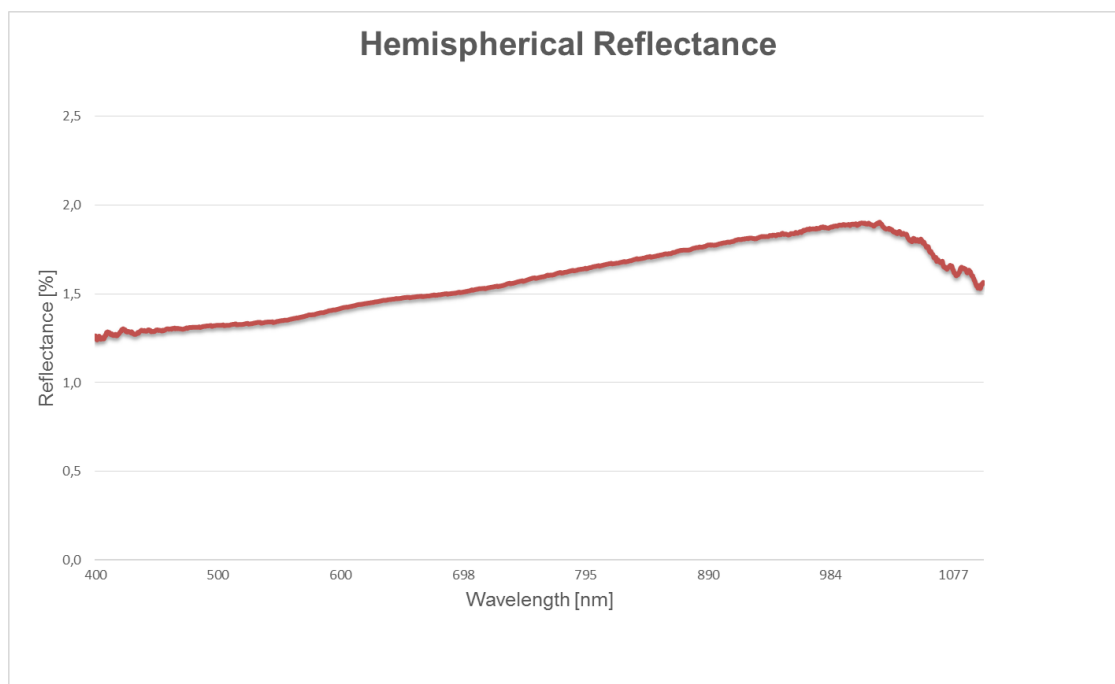
Typical Applications:

- Aerospace, satellites and instruments
- Passive thermal management
- Stray light suppression, shielding and light absorption

Optical and Thermo-Radiative Properties

Emissivity: > 0.8 (Over wavelength band 3-30µm)

Reflectance:



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 µm - other thicknesses available upon request
Coatings thickness	
Black layer	< 5 µm
Aluminium layer	< 1 µm
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 Optional low outgassing adhesive backing available

*All data should be considered typical/representative only