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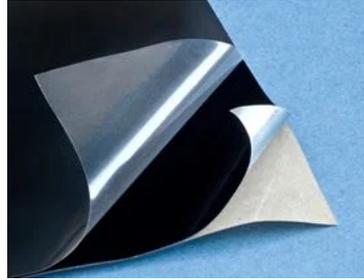


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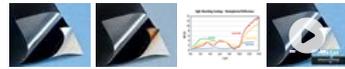
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# 100 x 100mm Sheet of Metal Velvet Foil, Standard Adhesive

See More by [Acktar](#)



Acktar Light Absorbent Foil



Stock #28-938 ✓ In Stock

1 \$88.00

Qty 1+	Volume Pricing
\$88.00	<a href="#">Request Quote</a>



Product Downloads

- STEP:step Curve:pdf
- PDF Drawing:pdf IGES:igs
- Spec Sheets User Manual
- eDrawing:eprt EO Spec Sheet
- [Download All](#)

## SPECIFICATIONS

### General

<b>Model Number:</b>	MV-10X10-1	<b>Type:</b>	Standard Adhesive
<b>Dimensions (cm):</b>	10 x 10		

### Physical & Mechanical Properties

<b>Dimensions (mm):</b>	100 x 100	<b>Foil Thickness (µm):</b>	115
<b>Adhesive Thickness (µm):</b>	60		

### Optical Properties

<b>Coating:</b>	Metal Velvet™	<b>Coating Thickness (µm):</b>	5 - 7
<b>Wavelength Range (µm):</b>	0.3 - 14		

### Environmental & Durability Factors

<b>Operating Temperature (°C):</b>	-40 to +121	<b>Abrasion Resistance:</b>	Light, do not touch
<b>Humidity Resistance:</b>	MIL-C-48497A		

### Regulatory Compliance

<b>RoHS 2015:</b>	<a href="#">Compliant</a>	<b>Certificate of Conformance:</b>	<a href="#">View</a>
<b>REACH 241:</b>	<a href="#">Compliant</a>		

## PRODUCT DETAILS

- Diffusive, Lambertian, or Specular Reflectance
- Extremely Wide Band Performance from the UV to IR
- Standard, Low Outgassing, and No Adhesive Options
- [Die Cut Labels](#) and [Larger Rolls](#) Available

Acktar Light Absorbent Foil and Film is used to eliminate light reflectance in applications where the direct coating of parts is not practical, including optical packaging, laser devices and platforms, IR systems, or passive thermal control. Acktar Light Absorbent Foil and Film features high emissivity with low reflectance, low outgassing, excellent biocompatibility, a broad operating temperature range, and compatibility with class 1 cleanrooms. Acktar Light Absorbent Foil and Film is available in pre-cut patterns or as

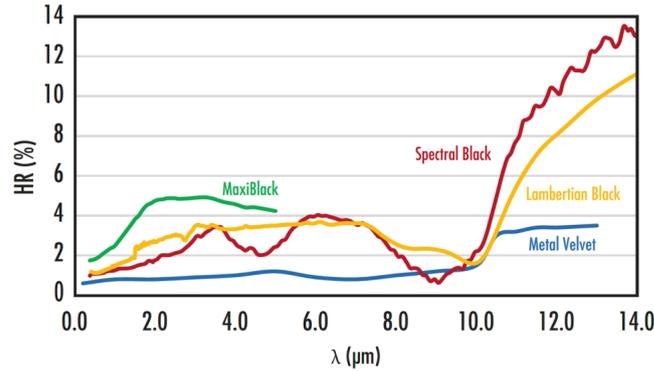
large sheets for custom patterns.

Acktar Light Absorbent Foil and Film is offered in Metal Velvet™ (diffusive coating on aluminum), Spectral Black™ (semi-specular coating on aluminum), MaxiBlack™ (diffusive coating on polyimide), or Lambertian Black™ (diffusive coating on stainless steel). Metal Velvet offers superior light absorption performance while Spectral Black is more durable, and Lambertian Black performs better at grazing angles. MaxiBlack, in addition to being durable and flexible, is nonconductive and can be used in applications that require light absorbing materials with no electrical conductivity.

**Note:** Metal Velvet has low resistance to abrasion and all surface contact should be avoided without proper equipment.

## TECHNICAL INFORMATION

Light Absorbing Coatings - Hemispherical Reflectance



Product Type	Metal Velvet™	Lambertian Black™	MaxiBlack™	Spectral Black™	Hexa-Black™
<b>Key Features</b>	Low reflectance of ~1%	High absorption at grazing angles	Thin polyimide, nonconductive substrate	Semi-specular finish	Ultra-high absorption at grazing angles
<b>Substrate Material</b>	Aluminum	Stainless Steel	Polyimide (Kapton)	Aluminum	Aluminum Honeycomb
<b>Substrate Thickness</b>	120μm	100μm	75μm	130μm	2mm
<b>Appearance</b>	Diffusive	Highly Diffusive	Diffusive	Specular	Diffusive 3D Structure
<b>Typical Spectral Range</b>	EUV - FIR	EUV - FIR	UV - MWIR	VIS - MWIR	EUV - FIR
<b>AOI Range</b>	0 - 60°	0 - 80°	0 - 60°	0 - 45°	0 - 88°
<b>Reflectance @ 0° AOI</b>	~1%	~1.5%	~2.5%	~2%	~1.5%
<b>Abrasion Resistance</b>	Light	Moderate to High	Moderate	Moderate	Moderate
<b>Cleanliness</b>	Class 10000 - ISO 7	Class 100 - ISO 5	Class 100 - ISO 5	Class 100 - ISO 5	Class 10000 - ISO 7

## ACCESSORIES

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

Title	Stock	Price	Buy
	Compare Number		

<a href="#">MORE+</a>	Light Absorbing Sample Kit (Low Outgassing): 2 coated foils, 1 coated film, 2 coated plates, 1 coated glass	<a href="#">#13-495</a>	<b>\$318.00</b> Qty 2+ \$290.30 <a href="#">Request Quote</a>	<span>✓ In Stock</span> <input type="checkbox"/>
<a href="#">MORE+</a>	Light Absorbing Sample Kit (Low Outgassing): 2 coated foils, 1 coated film, 2 coated plates	<a href="#">#13-494</a>	<b>\$290.00</b> Qty 2+ \$264.60 <a href="#">Request Quote</a>	<span>✓ In Stock</span> <input type="checkbox"/>
<a href="#">MORE+</a>	Metal Velvet Stray Light Control Kit: 9 Sizes	<a href="#">#88-240</a>	<b>\$184.00</b> Qty 2+ \$164.00 <a href="#">Request Quote</a>	<span>✓ In Stock</span> <input type="checkbox"/>

## FREQUENTLY PURCHASED TOGETHER



**#33-300 - 4mm UC Series Fixed Focal Length Lens**  
\$260.00



**#33-301 - 6mm UC Series Fixed Focal Length Lens**  
\$260.00



**#33-303 - 12mm UC Series Fixed Focal Length Lens**  
\$260.00



**#33-304 - 16mm UC Series Fixed Focal Length Lens**  
\$260.00

## RESOURCES

### Media Type

Video



▶ VIDEO

Acktar Stray Light Control Products

Product Comparison Compare up to five products at a time.

2 Items Added

COMPARE

