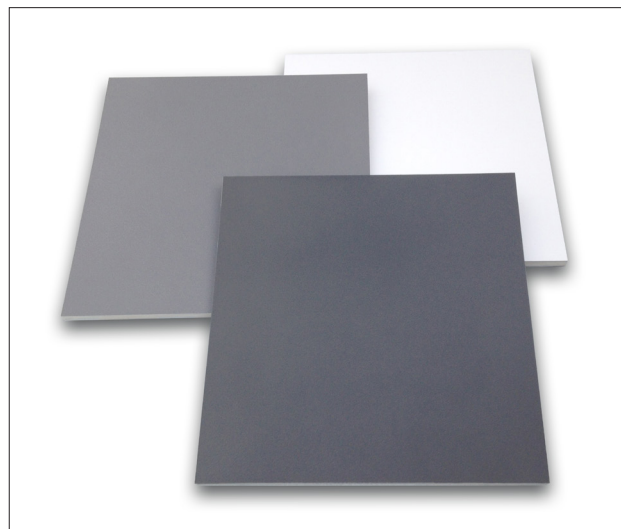


# Permaflect<sup>®</sup> Diffuse Reflectance Targets

Highly durable, lightweight targets up to 125 x 245 cm



#### No other options compare

- Lightweight
- Uniform
- Tailorable
- Durable
- Easy to Clean

#### Ideal for these applications

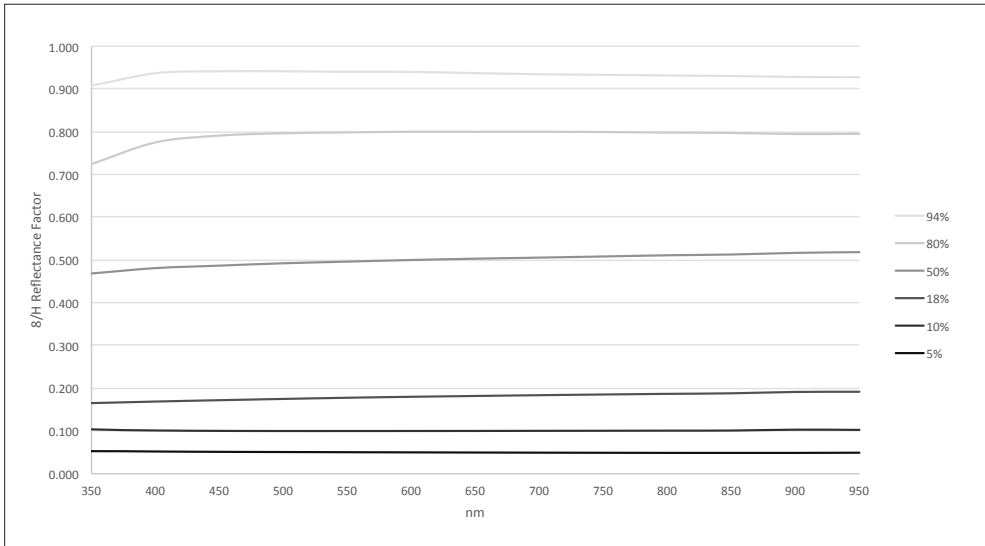
- LiDAR
- Time of Flight
- Ground Truth
- Imager Calibration
- Sensor/Source Compensation
- Superior Alternative to Grey Paper

#### Why grey painted cards, fabrics, and paper may put you at a disadvantage

For applications your grey target solution must work for a wide variety of lighting environments and still maintain its appearance. Most importantly it has to have uniform spectral response. It also must be thermally and physically durable, UV light stable, thermally color stable, no gloss, no polarization and no fluorescence.

**If your grey target solutions do not meet these requirements, you need Permaflect.**

# Typical 8/H Reflectance Factors of Permaflect

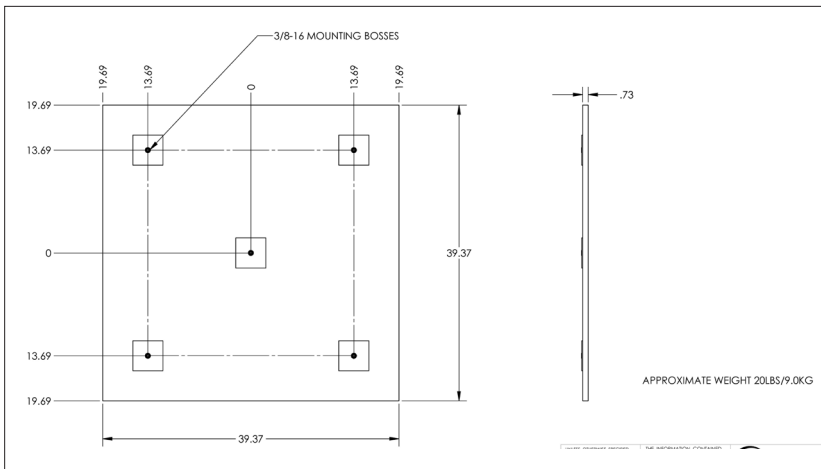


## Measurement Report Includes:

- Spectral reflectance from 350 nm to 1000 nm every 10 nm
- Reflectance map of target at 905 nm

Permaflect-X (%)	5%	10%	18%	50%	80%	94%
<b>Variance from Average in absolute reflectance</b>	+/-1% (3.5% - 6.5%)	+/-1% (8.5% - 11.5%)	+/-1% (16.5% - 19.5%)	+/-1.5% (48.0% - 52.0%)	+/-1% (78.5% - 81.5%)	+3%/ -0% (94.0% - 97.0%)
<b>Typical Flatness:</b> Peak to peak from 350 nm to 950 nm	0%	0%	3%	5%	8%	3%
<b>Uniformity:</b>						
0.5 m x 0.5 m at 600 nm	+/- 1%	+/- 1%	+/- 1%	+/- 1.5%	+/- 1%	+/- 1%
1.0 m x 1.0 m at 600 nm	+/- 1%	+/- 1%	+/- 1%	+/- 1.5%	+/- 1%	+/- 1%
1.5 m x 1.5 m at 600 nm	+/- 1%	+/- 1%	+/- 1%	+/- 1.5%	+/- 1%	+/- 1%
1.2 m x 2.4 m at 600 nm	+/- 1.5%	+/- 1.5%	+/- 1.5%	+/- 2.0%	+/- 1.5%	+/- 1.5%

## 1.0 m x 1.0 m Informational Drawing



## Permaflect Targets Unframed With Mounting

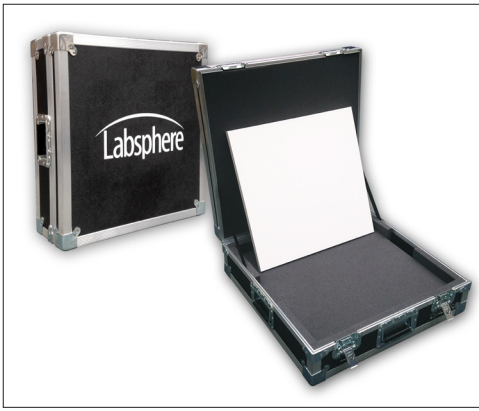
MODEL	DESCRIPTION	PART NUMBER
PFT-05-05M-UF-WM	Permaflect 5% 0.5M x 0.5M Unframed w/mounting	AA-01391-005
PFT-05-12M24M-UF-WM	Permaflect 5% 1.2M x 2.4M Unframed w/mounting	AA-01394-005
PFT-05-15M-UF-WM	Permaflect 5% 1.5M x 1.5M Unframed w/mounting	AA-01393-005
PFT-05-1M-UF-WM	Permaflect 5% 1.0M x 1.0M Unframed w/mounting	AA-01392-005
PFT-10-05M-UF-WM	Permaflect 10% 0.5M x 0.5M Unframed w/mounting	AA-01391-010
PFT-10-12M24M-UF-WM	Permaflect 10% 1.2M x 2.4M Unframed w/mounting	AA-01394-010
PFT-10-15M-UF-WM	Permaflect 10% 1.5M x 1.5M Unframed w/mounting	AA-01393-010
PFT-10-1M-UF-WM	Permaflect 10% 1.0M x 1.0M Unframed w/mounting	AA-01392-010
PFT-18-05M-UF-WM	Permaflect 18% 0.5M x 0.5M Unframed w/mounting	AA-01391-018
PFT-18-12M24M-UF-WM	Permaflect 18% 1.2M x 2.4M Unframed w/mounting	AA-01394-018
PFT-18-15M-UF-WM	Permaflect 18% 1.5M x 1.5M Unframed w/mounting	AA-01393-018
PFT-18-1M-UF-WM	Permaflect 18% 1.0M x 1.0M Unframed w/mounting	AA-01392-018
PFT-50-05M-UF-WM	Permaflect 50% 0.5M x 0.5M Unframed w/mounting	AA-01391-050
PFT-50-12M24M-UF-WM	Permaflect 50% 1.2M x 2.4M Unframed w/mounting	AA-01394-050
PFT-50-15M-UF-WM	Permaflect 50% 1.5M x 1.5M Unframed w/mounting	AA-01393-050
PFT-50-1M-UF-WM	Permaflect 50% 1.0M x 1.0M Unframed w/mounting	AA-01392-050
PFT-80-05M-UF-WM	Permaflect 80% 0.5M x 0.5M Unframed w/mounting	AA-01391-080
PFT-80-12M24M-UF-WM	Permaflect 80% 1.2M x 2.4M Unframed w/mounting	AA-01394-080
PFT-80-15M-UF-WM	Permaflect 80% 1.5M x 1.5M Unframed w/mounting	AA-01393-080
PFT-80-1M-UF-WM	Permaflect 80% 1.0M x 1.0M Unframed w/mounting	AA-01392-080
PFT-94-05M-UF-WM	Permaflect 94% 0.5M x 0.5M Unframed w/mounting	AA-01391-094
PFT-94-12M24M-UF-WM	Permaflect 94% 1.2M x 2.4M Unframed w/mounting	AA-01394-094
PFT-94-15M-UF-WM	Permaflect 94% 1.5M x 1.5M Unframed w/mounting	AA-01393-094
PFT-94-1M-UF-WM	Permaflect 94% 1.0M x 1.0M Unframed w/mounting	AA-01392-094

Permaflect Target Reflectance Uniformity Mapping and Report Included

## Permaflect Targets Unframed No Mounting

MODEL	DESCRIPTION	PART NUMBER
PFT-05-05M-UF-NM	Permaflect 5% 0.5M x 0.5M Unframed No Mounting	AA-01411-005
PFT-05-12M24M-UF-NM	Permaflect 5% 1.2M x 2.4M Unframed No Mounting	AA-01414-005
PFT-05-15M-UF-NM	Permaflect 5% 1.5M x 1.5M Unframed No Mounting	AA-01413-005
PFT-05-1M-UF-NM	Permaflect 5% 1.0M x 1.0M Unframed No Mounting	AA-01412-005
PFT-10-05M-UF-NM	Permaflect 10% 0.5M x 0.5M Unframed No Mounting	AA-01411-010
PFT-10-12M24M-UF-NM	Permaflect 10% 1.2M x 2.4M Unframed No Mounting	AA-01414-010
PFT-10-15M-UF-NM	Permaflect 10% 1.5M x 1.5M Unframed No Mounting	AA-01413-010
PFT-10-1M-UF-NM	Permaflect 10% 1.0M x 1.0M Unframed No Mounting	AA-01412-010
PFT-18-05M-UF-NM	Permaflect 18% 0.5M x 0.5M Unframed No Mounting	AA-01411-018
PFT-18-12M24M-UF-NM	Permaflect 18% 1.2M x 2.4M Unframed No Mounting	AA-01414-018
PFT-18-15M-UF-NM	Permaflect 18% 1.5M x 1.5M Unframed No Mounting	AA-01413-018
PFT-18-1M-UF-NM	Permaflect 18% 1.0M x 1.0M Unframed No Mounting	AA-01412-018
PFT-50-05M-UF-NM	Permaflect 50% 0.5M x 0.5M Unframed No Mounting	AA-01411-050
PFT-50-12M24M-UF-NM	Permaflect 50% 1.2M x 2.4M Unframed No Mounting	AA-01414-050
PFT-50-15M-UF-NM	Permaflect 50% 1.5M x 1.5M Unframed No Mounting	AA-01413-050
PFT-50-1M-UF-NM	Permaflect 50% 1.0M x 1.0M Unframed No Mounting	AA-01412-050
PFT-80-05M-UF-NM	Permaflect 80% 0.5M x 0.5M Unframed No Mounting	AA-01411-080
PFT-80-12M24M-UF-NM	Permaflect 80% 1.2M x 2.4M Unframed No Mounting	AA-01414-080
PFT-80-15M-UF-NM	Permaflect 80% 1.5M x 1.5M Unframed No Mounting	AA-01413-080
PFT-80-1M-UF-NM	Permaflect 80% 1.0M x 1.0M Unframed No Mounting	AA-01412-080
PFT-94-05M-UF-NM	Permaflect 94% 0.5M x 0.5M Unframed No Mounting	AA-01411-094
PFT-94-12M24M-UF-NM	Permaflect 94% 1.2M x 2.4M Unframed No Mounting	AA-01414-094
PFT-94-15M-UF-NM	Permaflect 94% 1.5M x 1.5M Unframed No Mounting	AA-01413-094
PFT-94-1M-UF-NM	Permaflect 94% 1.0M x 1.0M Unframed No Mounting	AA-01412-094

Permaflect Target Reflectance Uniformity Mapping and Report Included



## Permafect Targets Carry and Stow Case Options

- Cases carry one to three targets
  - Protects surface and corners from being scratch and dinged
    - Hard sided case with reinforced corners
    - Foam lined fitted inserts
    - Can be used to stack targets in constrained spaces
- Grab and go
  - Recessed handles
- Grab and drag larger targets
  - EZ Haul wheels options
- Easy access
  - Hinged cases
- Secure
  - Recessed latched
- No additional packaging needed
  - Can be used for shipments, storage and transport

MODEL	DESCRIPTION	PART NUMBER
PFT-05M-Carry Case	Carry case for Permafect 0.5M x 0.5M Targets Main unit size: (L x W x H) -> 21.69" x 21.69" x 1" no castors or wheels	AA-01523-050
PFT-1M-Carry Case	Carry case for Permafect 1M x 1M Targets Main unit size: (L x W x H) -> 41.37" x 41.37" x 1" no castors or wheels	AA-01523-100
PFT-1M-Carry Case Wheeled	Carry case for Permafect 1M x 1M Targets Main unit size: (L x W x H) -> 41.37" x 41.37" x 1" With corner wheel installed	AA-01524-100
PFT-15M-Carry Case	Carry case for Permafect 1.5M x 1.5M Targets Main unit size: (L x W x H) -> 60" x 60" x 1" no castors or wheels	AA-01523-150
PFT-15M-Carry Case Wheeled	Carry case for Permafect 1.5M x 1.5M Targets Main unit size: (L x W x H) -> 60" x 60" x 1" With corner wheel installed	AA-01524-150
PFT-15M-Target Mount and Carriage	Target mount for Permafect 1.5M x 1.5M Targets; connection straps and blocks for connecting two carriages together. All hardware and tools provided	AA-01525-150