

# **PMR10R2 - September 18, 2024**

Item # PMR10R2 was discontinued on September 18, 2024. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

# HIGH-REFLECTANCE PTFE SHEETS

- Omnidirectional, Diffusely Reflective PTFE Ideal for UV Sterilization
- >93% Average Reflectance from 250 to 400 nm
- Usable at Temperatures up to 260 °C
- Hydrophobic and Chemically Inert



**PMR10P1** 33 cm x 33 cm Sheet with Adhesive Backing

UV Reflectance Comparison

Wavelength (nm)

Click to Enlarge PMR10 Series PTFE Sheet Reflectance Compared to

**Common Metals** 

PMR 10 Series PTFE

Polished Alum i Stainless Steel **PMR10R2** 33 cm x 13.2 m Sheet

#### Hide Overview

#### OVERVIEW

## Features

- Porous, Sintered PTFE for High Omnidirectional Tensile Strength
- Nearly Lambertian
  Reflectance
- R<sub>avg</sub> > 93% (250 -400 nm)
- Skived (Shaved) for Precise Thickness
- Control
- Naturally Hydrophobic Material (IP-Rated)
- Contact Tech Support for Custom Requests
  - Different Sizes
  - With or Without Adhesive Backing

Specifications							
Item #		PMR10P1	PMR10R1	PMR10R2			
PTFE Dimensions	Thickness	0.75 mm					
	Width	33 cm					
	Length	33 cm	13.2 m	± 1.5 m			
Adhesive Backing		3M 93020 Tape w/ 300LSE Adhesive, 0.20 mm Thick <sup>a</sup>		None			
Average Reflectance (Click for Graph; Raw Data)		>93% (250 - 400 nm) >92% (400 - 800 nm)					
Dielectric Constant		1.7					
Operating Temperature		-40 to 260 °C					
UL Rating		5VA V-0 (UL 94), f1 (UL 746C)					

These polytetrafluoroethylene (PTFE) sheets provide highly efficient and uniform diffuse reflection of UV light, making them ideal for applications such as UV irradiation and sterilization of objects. Their average reflectance of >93% from 250 to 400 nm provides

Reflectance (%)

80

70

60

a. With Protective Liner Removed

better performance than polished aluminum or stainless steel (see the graph to the right). PTFE is also chemically inert and UV resistant, traits not found in common polymers such as polyethylene, polycarbonate, and nylon.

## Comparison with Molded PTFE and Extended PTFE (ePTFE)

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Part Number	Description	Price	Availability
PMR10P1	PTFE Diffuse Reflector Sheet with Adhesive Backing, 33 cm x 33 cm, 0.75 mm Thick	\$61.50	Today
PMR10R1	PTFE Diffuse Reflector Sheet with Adhesive Backing, 33 cm x 13.2 m, 0.75 mm Thick	\$1,745.42	Lead Time
PMR10R2	PTFE Diffuse Reflector Sheet, 33 cm x 13.2 m, 0.75 mm Thick	\$1,232.66	Today