

## Technical Information

# PLEXIGLAS® FILM WHITE 99532

## PRODUCT DATA SHEET

### PRODUCT

PLEXIGLAS® White 99532 Light Scattering Film is based on impact-modified polymethyl methacrylate and offers an ideal combination of transmission and light diffusion.

### PROPERTIES

The key properties compared to other materials suitable for illumination purposes are:

- The pure white color
- Fewer inclusions
- Extreme weatherability and UV resistance
- The high-gloss surface has a good resistance to weak acids and alkalis as well as to non-polar solvents

### APPLICATION

PLEXIGLAS® White 99532 Film is universally applicable wherever light scattering is required. Its high transmission combined with superior diffusion provide bright surfaces even with weak light sources.

### PROCESSING

PLEXIGLAS® Light Scattering Film can be printed by all techniques, such as gravure, flexographic, screen and digital printing. Furthermore, the film can be die-cut using steel rule dies and column-guided tools.

### PHYSICAL FORM

PLEXIGLAS® White 99532 is available as cut-to-size in thicknesses of 0.5 mm and 1.0 mm.



The PLEXIGLAS® film scatters light diffusely, which breaks up the background.

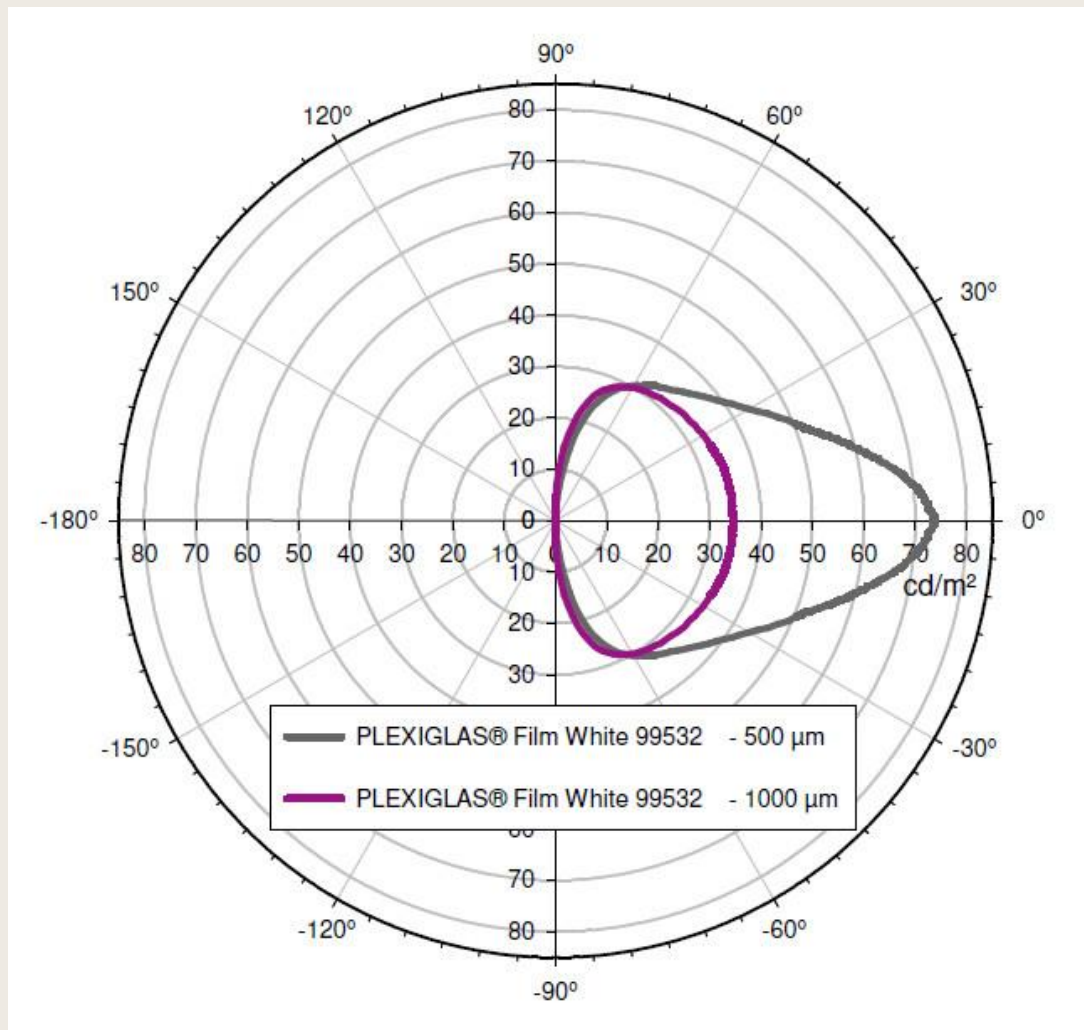


Illuminated background with PLEXIGLAS® film on the right, without film on the left.

## TECHNICAL DATA

Properties	Unit	PLEXIGLAS® Film 99532 White	PLEXIGLAS® Film 99532 White	Test Method
Thickness	mm	0.50	1	
<b>Optical</b>				
Luminous transmittance (D65)	%	57.5	44.5	ISO 13468-2
Half value angle (intensity)	°	41.5	81	
Throwing Power		0.544	0.884	
L* (in transmission, D65)		80.5	72.6	DIN 5033
a* (in transmission, D65)		0.83	0.33	DIN 5033
b* (in transmission, D65)		5.83	5.39	DIN 5033
Color coordinates x (in transmission, D65)		0.3268	0.3262	DIN 5033
Color coordinates y (in transmission, D65)		0.3427	0.3431	DIN 5033
UV transmittance (280 – 380 nm)		2.1	< 2	DIN EN 410
<b>Mechanical</b>				
Tensile stress at yield	MPa	55	51	ISO 527-3
Nominal strain at break	%	4.5	4.5	ISO 527-3

## TECHNICAL DATA



° = registered trademark PLEXIGLAS is a registered trademark of Evonik Röhm GmbH, Darmstadt, Germany.  
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

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