



PLEXIGLAS® Film White 99532

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:

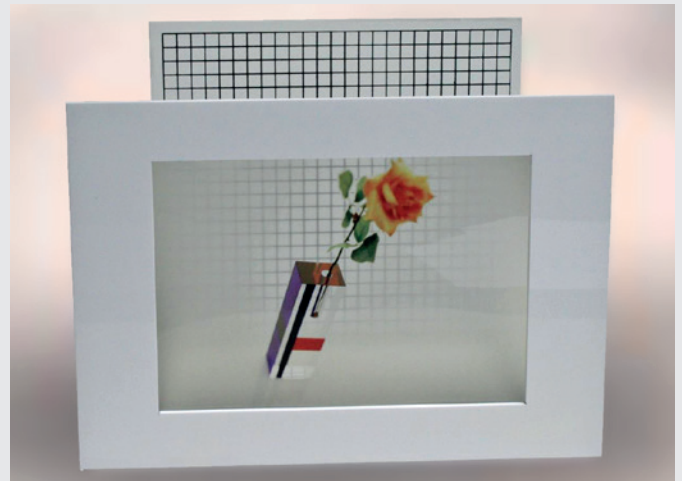
- The pure white color
- Fewer inclusions
- Extreme weatherability and UV resistance
- The high-gloss surface has a good resistance to weak acids and alkalis as well as to non-polar solvents

Application

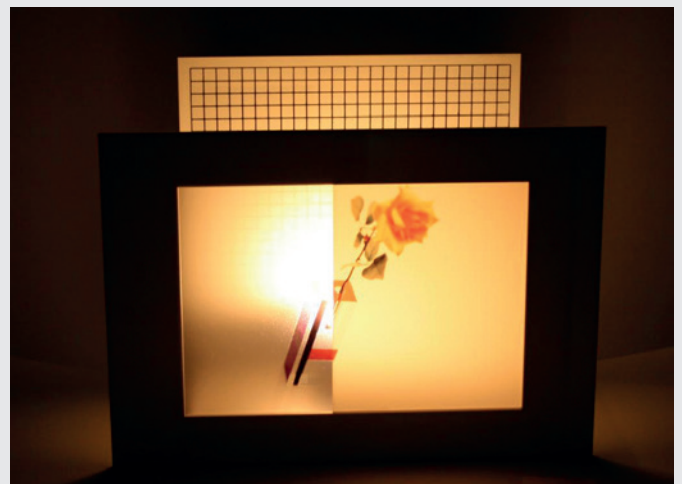
PLEXIGLAS® White 99532 Film is universally applicable wherever light scattering is required. Its high transmission combined with superior diffusion provide bright surfaces even with weak light sources.

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.



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

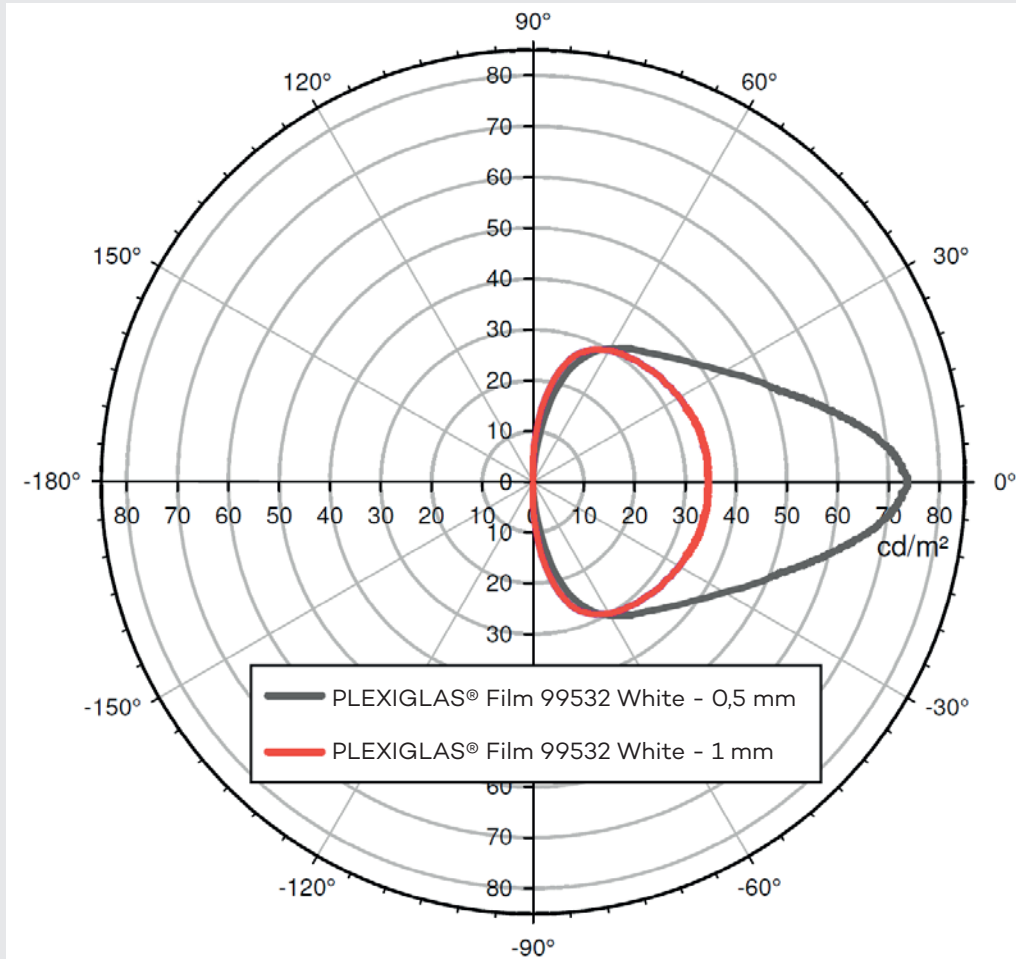


Illuminated background with PLEXIGLAS® film on the right, without film on the left.

Technical Data

Properties	Unit	PLEXIGLAS® Film 99532 White	PLEXIGLAS® Film 99532 White	Test Method
Thickness	mm	0.50	1	
Optical				
Luminous transmittance (D65/10°)	%	57.5	44.5	DIN EN ISO 11664
Half value angle (intensity)	°	36	76	DIN 5036
Throwing Power		0.544	0.884	DIN 5036
L* (in transmittance, D65/10°)		80.5	72.6	DIN EN ISO 11664
a* (in transmittance, D65/10°)		0.83	0.33	DIN EN ISO 11664
b* (in transmittance, D65/10°)		5.83	5.39	DIN EN ISO 11664
Color coordinates x (in transmittance, D65/10°)		0.3268	0.3262	DIN EN ISO 11664
Color coordinates y (in transmittance, D65/10°)		0.3427	0.3431	DIN EN ISO 11664
UV transmittance (280 – 380 nm)		2.1	< 2	DIN EN 410
Mechanical				
Tensile yield stress (σ_y)	MPa	55	51	DIN EN ISO 527-3
Nominal tensile strain at break (ϵ_{tB})	%	4.5	4.5	DIN EN ISO 527-3

Polardiagram



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® = registered trademark
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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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