



PLEXIGLAS®
Film

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:

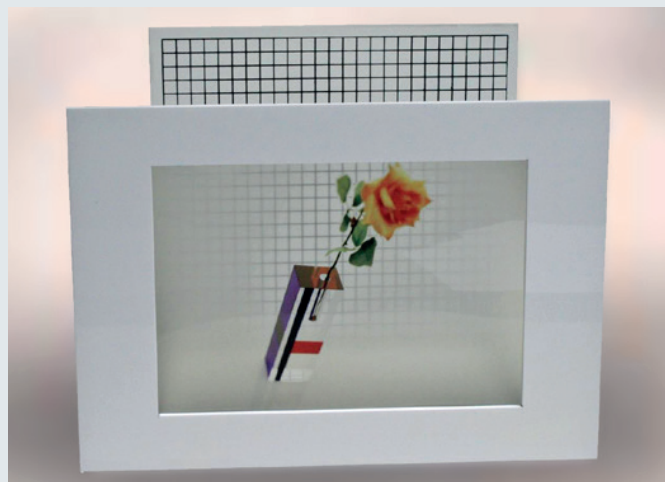
- The pure white color
- Fewer inclusions
- Extreme weatherability and UV resistance
- The high-gloss surface has a good resistance to weak acids and alkalis as well as to non-polar solvents

Application

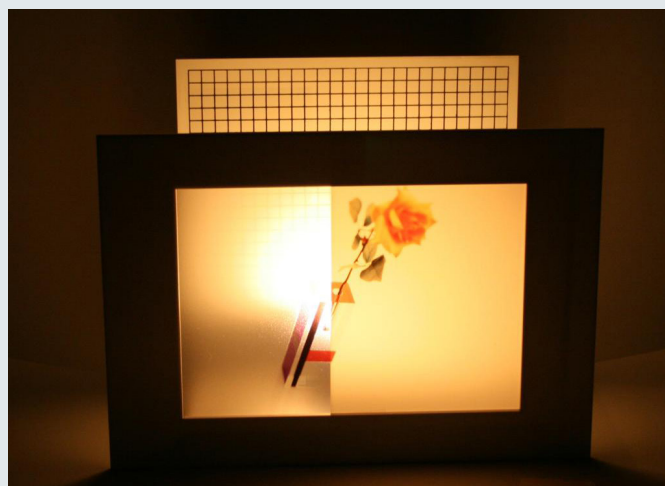
PLEXIGLAS® White 99532 Film is universally applicable wherever light scattering is required. Its high transmission combined with superior diffusion provide bright surfaces even with weak light sources.

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.



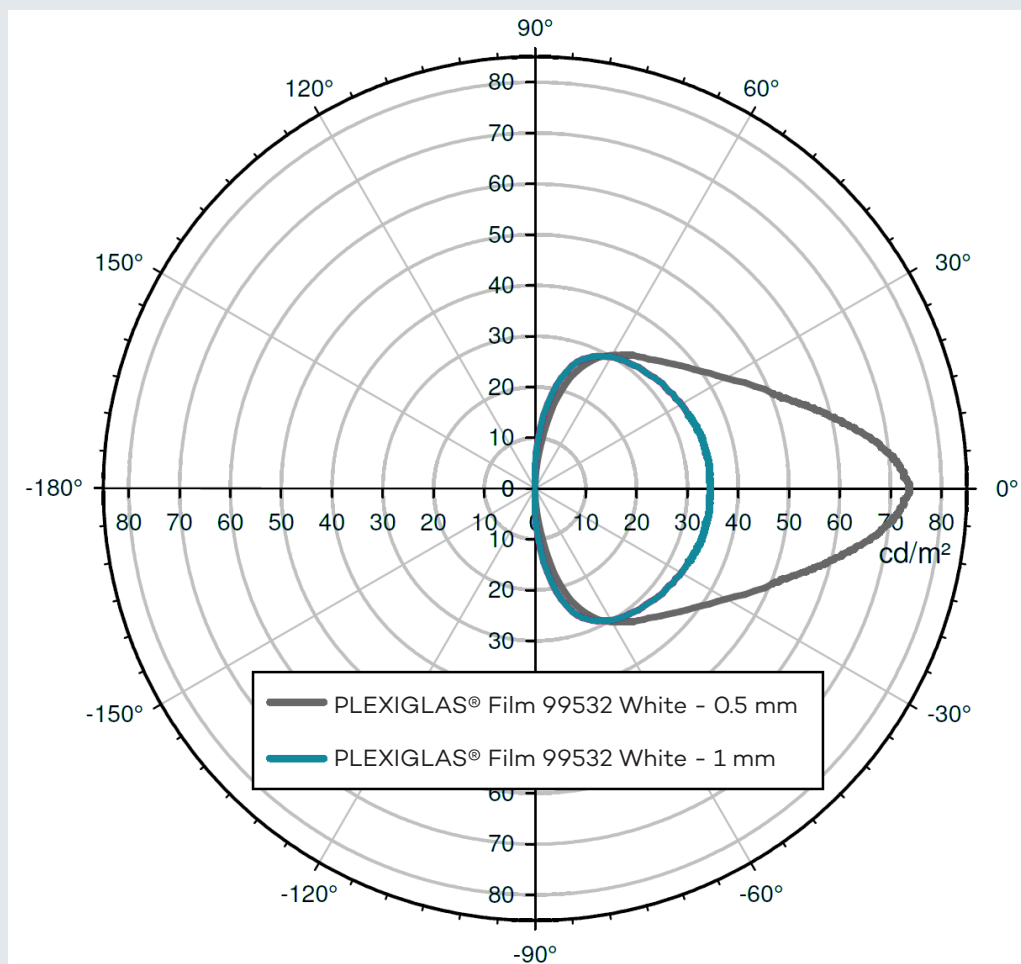
Illuminated background with PLEXIGLAS® film on the right, without film on the left.

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



POLYVANTIS GmbH

Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark

Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates. Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.