

PLEXIGLAS® Film White 99532

PMMA Film

Evonik Industries AG

Message:

PLEXIGLAS® White 99532 and White 99547 Light Scattering Films are based on impact-modified polymethyl methacrylate and offer an ideal combination of transmission and light diffusion. The key properties compared to other materials suitable for illumination purposes are the pure white color, fewer inclusions, extreme weatherability and UV resistance. In addition, these films with two high-gloss surfaces have good resistance to weak acids and alkalis as well as to non-polar solvents.

Applications

PLEXIGLAS® White 99532 and White 99547 Films are universally applicable wherever light scattering is required. Their high transmission combined with superior diffusion provide bright surfaces even with weak light sources.

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Solvent resistance		
	Good UV resistance		
	alkali resistance		
	Good weather resistance		
	acid resistance		
Uses	Illumination diffuser		
Appearance	White		
Forms	Films		
Hardness	Nominal Value		Test Method
Pencil Hardness	1H		ASTM D3363
Half-Value Angle - intensity			
500.0 μm	41.5	°	
1.00 mm	81.0	°	
Films	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-3
Tensile Stress (Yield)	51.0	MPa	ISO 527-3
Tensile Elongation (Yield)	4.5	%	ISO 527-3
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306
CLTE - Flow	1.1E-4	cm/cm/°C	DIN 53752-A
Specific Heat	1500	J/kg/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·cm	IEC 60093
Dissipation Factor			IEC 60250
100 Hz	0.040		IEC 60250

1 MHz	0.030		IEC 60250
Optical	Nominal Value	Unit	Test Method
Transmittance			DIN 5036
500 μm	57.5	%	DIN 5036
1000 μm	44.5	%	DIN 5036
Additional Information	Nominal Value	Unit	

Throwing Power: 0.544 (thickness: 0.5 mm)Throwing Power: 0.884 (thickness: 1.0 mm)

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