

**PLEXIGLAS® and EUROPLEX®**  
Film

**PLEXIGLAS® and EUROPLEX® Films for Insert Molding**

**Product**

PLEXIGLAS® and EUROPLEX® Films for Insert Molding are highly transparent PMMA and PC films with outstanding optical clarity and graphic surface finish.

Thanks to their glossy and smooth surface, PLEXIGLAS® and EUROPLEX® Films for Insert Molding are perfectly suitable for high quality printing.

PLEXIGLAS® and EUROPLEX® Films for Insert Molding perform satisfactorily in indoor applications retaining high light transmission over time and under harsh climates.

**Application**

In decorative film for Insert Molding Decoration (IMD) applications, the films provides a high quality finish and decorative layer for injection molded parts.

PLEXIGLAS® and EUROPLEX® Films for Insert Molding can be used to make highly transparent parts where a clear and thin polymer layer is needed as a cost-effective alternative for injection molding process.

High quality displays and graphic art panels can be achieved with PLEXIGLAS® and EUROPLEX® Films for Insert Molding.

**Processing**

PLEXIGLAS® and EUROPLEX® Films for Insert Molding show excellent printing performance to achieve high graphic printings.

The films can be cut easily via slitting, die-cutting or laser-cutting processes and finest cutting edges can be achieved as a result.

**Sales range**

PLEXIGLAS® Film 99524 is a mono-layer PMMA film and is delivered in thicknesses of 175, 250, 375, 500, and 750 µm in roll format and 1 mm thickness in sheet.

EUROPLEX® Film LJ: 21123/96/C is a mono-layer PMMA film with an additional scratch resistant coating and is delivered in 175 and 250 µm in roll format.

EUROPLEX® Film OF093 is a PC film with enhanced surface hardness and is delivered in 250 µm in roll format.

**Product Properties**

PLEXIGLAS® Film 99524	EUROPLEX® Film LJ:21123/96/C	EUROPLEX® Film OF093
PMMA Film	PMMA Film with hardcoat	PC Film with enhanced surface hardness

## Technical Data

Property	Test method	Unit	PLEXIGLAS® Film 99524	EUROPLEX® Film LJ:21123/96/C	EUROPLEX® Film OF093
<b>Thickness</b>			250 µm	175 µm	250 µm
<b>Optical</b>					
Luminous transmittance (D65/10°)	ISO 11664	%	92,3	92	91
UV transmittance (280–380 nm)	DIN EN 410	%	12,2	6,9	83
Yellowness Index (D65/10°)	ISO 17223	–	0,2	0,45	0,5
Haze at 23 °C	ASTM D1003	%	0,8	0,5	0,2
<b>Mechanical</b>					
Tensile yield stress (MD) $\sigma_y$	ISO 527-3	MPa	55	38	58
Nominal tensile strain at break (MD) $\epsilon_y$		%	59	7,2	3,8
Formability with Insert Molding		–	3D	Max. 2D	3D
<b>Scratch resistance</b>					
Multi Finger Scratch	According to Daimler Chrysler Corporation LP-463DD-18-01	N	< 3	5	5
Crock master test	EN ISO 105 X12	Haze in %	5,39	1,96	7,53
Mar tester	According to Oesterle Model 435	N	2	5	5
Hardness	According to ZHT 2092 Pencil	N	1	5	5

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