

**EUROPLEX®**
Film

EUROPLEX® COC Film OF308

Product

EUROPLEX® COC Film OF308 based on elastomer E140 is a highly flexible film with outstanding optical properties like UV and light transmission. EUROPLEX® COC Film OF308 withstands gamma and e-beam sterilization and has excellent barrier properties.

Application

Developed especially for the microfluidic sector, EUROPLEX® COC Film OF308 is an ideal fit for applications where a flexible film is needed.

Moreover, the film possesses great barrier properties in regard of water vapor and oxygen permeability.

The outstanding transmission for UV and visible light of this film makes it also perfect to be used in optical applications.

Processing

EUROPLEX® COC Film OF308 can be processed with common methods like die- and laser cutting.

Sales range

EUROPLEX® COC Film OF308 is supplied in thicknesses of 60 µm, 90 µm and 100 µm. The rolls can have a width up to 220 mm and a length up to 250 m. The film is provided with a clear masking film on one side to facilitate further processing.

Technical data

EUROPLEX® COC Film OF308 (thickness 100 µm)

Properties	Test method	Unit	Value
Optical			
Luminous transmittance (D65/10°)	DIN EN ISO 11664	%	91
L (D65/10°)			96.68
a (D65/10°)			0.01
b (D65/10°)			0.19
UV transmittance (280–380 nm)	DIN EN 410	%	> 90
Yellowness Index (D65/10°)	ISO 17223	–	0.4
Mechanical			
Tensile yield stress (MD) σ_m	DIN EN ISO 527-3	MPa	46
Nominal tensile strain at break (MD) ϵ_m		%	> 500
Thermal			
Melting temperature T_m (10 °C/min)	DIN EN ISO 11357	°C	84
Barrier			
Water vapor permeability @ 23 °C, 85 % RH	DIN EN ISO 15106-3	g×100 μm / m²×day	1.0
Water vapor permeability @ 38 °C, 90 % RH			4.6
Oxygen permeability @ 23 °C, 50 % RH	ASTM D3985	cm³×100 μm / m²×day×bar	1200

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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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