

Makrofol[®] LM903 1-4 160008

Description and Application Information

Makrofol[®] LM903 1-4 160008 is an opaque white extruded film based on Makrolon Polycarbonate.

It offers the high light reflection which is designed to apply in the field of LCD backlight and LED backlight.

Makrofol[®] LM903 1-4 160008 is available in the thicknesses range of of 300 to 700 µm. Other thicknesses are on request.

The surface combination is one side gloss and one side matte.

Guide data*

General properties

Property	Value	Unit of measurement	Method
Density	1.34	g/cm ³	ISO 1183, 20°C, Method C
Gloss		Digits	ISO 2813, Angle 60°, backprinted black
1 - surface	≥ 99		
4 - surface	< 15		

Optical properties

Property	Value	Unit of measurement	Method
Light reflection	≥ 95	%	ASTM E1331, against white background

Mechanical properties

Property	Value	Unit of measurement	Method
Stress at break		MPa	ISO 527-1,-3
machine direction	≥ 65		
transverse direction	≥ 65		
Strain at break		%	ISO 527-1,-3
machine direction	≥ 100		
transverse direction	≥ 100		
Tensile Modulus		MPa	ISO 527-1,-3
machine direction	≥ 2650		
transverse direction	≥ 2600		

Thermal properties

Property	Value	Unit of measurement	Method
Relative temperature index	80	°C	UL 746 B



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Electrical properties			
Property	Value	Unit of measurement	Method
Surface resistivity	10 ¹⁶		following DIN IEC 60093

Other properties			
Property	Value	Unit of measurement	Method
Water absorption	0.2	%	following ISO 62

* These values provide general information and are not part of the product specification.

Labeling and REACH applications

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet.

Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.

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(1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

(2) As defined in Commission Regulation (EU) 1935/2004.

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