

Makrofol[®] LM903 1-4 160008

Description and Application Information

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

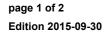
It offers the high light reflection which is designed to apply in the field of LCD backlight and LED backlight.

Makrofol $^{\odot}$ LM903 1-4 160008 is available in the thicknesses range of 300 to 700 μ m. Other thicknesses are on request.

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

Guide data*

Property	Value	Unit of measurement	Method
Density	1.34	g/cm³	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, agains 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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This product is not designated for the manufacture of a medical device (1) or of intermediate products for medical devices. This product is also not designated for Food Contact (2), including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

- (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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