

Makrofol® LM243 2-4 160020

Description and Application Information

Makrofol® LM243 2-4 160020 is an extruded polycarbonate film filled with a light-scattering agent. It displays a smooth homogenous illumination of the front side of a backlit part even if a point source light is applied. This film type has antidust properties as well as improved punching properties.

Makrofol® LM243 2-4 160020 is available in various standard thickness between 150 and 500 microns. Other thicknesses on request.

Surface structure is very fine matte/fine matte (2-surface/4-surface).

Typical applications are automotive instrument panels and backlight displays.

Preliminary guide data

General properties

Property	Value	Unit of measurement	Method
Density	1,2	g/cm ³	ISO 1183, 20°C, Method C
Thickness	150, 300, 375, 500	µm	following ISO 4593, 23°C
Gloss		Digits	ISO 2813, Angle 60°, backprinted black
2-surface	≥ 55		
4-surface	≤ 60		
Roughness		µm	acc. to ISO 4287/88, Lm12,5mm, lc 2,5mm, Average over 3-5 measurements
2-surface	≤ 6		
4-surface	3 - 11		

Optical properties

Property	Value	Unit of measurement	Method
Light transmission		%	ASTM D1003
150 µm	90		
300 µm	81		
375 µm	78		
500 µm	73		
Half-power angle		Degree	following DIN 5036
150 µm	16		
300 µm	30		
375 µm	37		
500 µm	46		

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Electrical properties			
Property	Value	Unit of measurement	Method
Surface resistivity 2-surface	10 ¹⁴	Ohm	following DIN IEC 60093
Surface resistivity 4-surface	10 ¹⁶	Ohm	

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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