

Makrofol® UV244 1-1 000000

Description and Application Information

Makrofol® UV244 1-1 000000 is a coextruded film based on Makrolon® with a specially developed functional layer for UV-protection. It combines the well known advantages of Makrofol® with respect to mechanical, thermal and optical properties with the capability for applications under UV-exposure.

The surface combination commonly available is gloss/gloss (1-1) with various standard thicknesses of 175, 250 and 375 microns.

Other thickness are upon request.

Typical applications are instrument panels and touch panels in the automotive sector.

Guide data*

General properties			
Property	Value	Unit of measurement	Method
Density	1,2	g/cm ³	ISO 1183, 20°C method C
Thickness	175, 250, 375	µm	ISO 4593
Gloss			
1-surface (1-1)	≥ 90	digits	ISO 2813
Roughness			
1-surface (1-1)	≤ 0,5	µm	following ISO 4287/88
Mechanical properties			
Property	Value	Unit of measurement	Method
Tensile Modulus	≥ 2100	MPa	ISO 527-1,-3
Stress at break	≥ 60	MPa	ISO 527-1,-3
Strain at break	≥ 100	%	ISO 527-1,-3
Optical properties			
Property	Value	Unit of measurement	Method
Light transmission	≥ 80	%	O/D Standard light C/2
Discoloring after UV exposure	-4,5	delta L	SAE J 1885, 489kJ/m ² Reflection (8°/d)
	-0,5	delta a	
	2,3	delta b	
	4	delta YI	
	≤ 1	delta YI	Transmission (0°/d)

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

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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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