

# Makrofol® DE 6-2 000000

## Description and Application Information

Makrofol® DE 6-2 000000 is a translucent film based on Makrolon, the Hightech Polycarbonat made by Covestro. The dazzle free and scratch resistant film has been developed especially for graphic applications and comprises an unique surface combination fine velvet-very fine matte.

It is available in various standard thicknesses from 50 microns to 750 microns. Other thicknesses on request.

Typical applications are instrument panels, displays, control panels, nameplates, dials, scales, LCD displays and automotive interior decoration.

## Guide data\*

General properties			
Property	Value	Unit of measurement	Method
Density	1,2	g/cm <sup>3</sup>	ISO 1183, 20°C method C
Mechanical properties			
Property	Value	Unit of measurement	Method
Tensile Modulus	≥ 2200	MPa	ISO 527-1,-3
Stress at break, parallel	≥ 70	MPa	ISO 527-1,-3
Stress at break, across	≥ 70	MPa	ISO 527-1,-3
Strain at break, parallel	140	%	ISO 527-1,-3
Thermal properties			
Property	Value	Unit of measurement	Method
Coefficient of linear thermal expansion, parallel 20 to 120°C	70	10 <sup>-6</sup> /K	following DIN 53752
Coefficient of linear thermal expansion, across 20 to 120°C	70	10 <sup>-6</sup> /K	following DIN 53752
Shrinkage, parallel 130°C, 1 h	< 0,4	%	following IEC 60674-2
Shrinkage, across 130°C, 1 h	< 0,4	%	following IEC 60674-2
Burning behavior			
Property	Value	Unit of measurement	Method
Burning rate (FMVSS 302)	≤ 100	mm/min	ISO 3795
Optical properties			
Property	Value	Unit of measurement	Method
Light transmittance	≥ 85	%	ISO 13468-2, following DIN 5036

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Other properties			
Property	Value	Unit of measurement	Method
Water absorption (saturation)	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.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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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