

# Makrofol<sup>®</sup> HS337 G-1 020010

## Description and Application Information

Makrofol HS337 G-1 020010 is a high transparency extruded PC film, with a scratch resistant coating on one side.

Distinguish features are high transparency, high mechanical and thermal durability, with good scratch resistance. The film can be printed on the uncoated side.

The surface structure of Makrofol HS337 G-1 020010 is one side gloss coated and one side gloss. The product is protected with a PE masking film on both sides.

Makrofol HS337 G-1 020010 is available in the standard thicknesses of 180, 255 and 380 microns.

Typical applications are displays, appliances, switch panels and graphics.

## Preliminary guide data

General properties			
Property	Value	Unit of measurement	Method
Density	1,2	g/cm <sup>3</sup>	ISO 1183, 20°C method C
Thickness	180, 255, 380	microns	ISO 4593
Mechanical properties			
Property	Value	Unit of measurement	Method
Tensile Modulus	≥ 2100	MPa	ISO 527-1,-3
Tensile strength	≥ 60	MPa	ISO 527-1,-3
Elongation at break	≥ 5	%	ISO 527-1,-3
Other properties			
Property	Value	Unit of measurement	Method
Pencil hardness	HB		ASTM D 3363
Cross cut	≤ 1		DIN EN ISO 2409
Optical properties			
Property	Value	Unit of measurement	Method
Transmittance	≥ 90	%	Haze-gard plus, ASTM D 1003
Haze	< 1	%	Haze-gard plus, ASTM D 1003
Gloss, 60° coated side on white copy paper	≥ 100	digits	

# Makrofol® HS337 G-1 020010

<b>Burning behavior</b>			
Property	Value	Unit of measurement	Method
Burning rate (UL)	≤ 100	mm/min	US-FMVSS 302
<b>Storage conditions</b>			
Storage in the original, sealed Covestro packaging			
Recommended storage temperature: -20 till max. +25 °C			
Protect from dust, compressive load, light and moisture			
<b>Storage time</b>			
6 months ex delivery (in original, sealed Covestro packaging)			
<b>Labeling and REACH applications</b>			
<b>This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet.</b>			
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.

This is a trial product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damage, of whatever nature, arising out of such use. Commercialisation and continued supply of this material are not assured. Its supply may be discontinued at any time.

Editor: CAS Specialty Films  
Covestro AG  
Kaiser-Wilhelm-Allee 60  
D-51373 Leverkusen  
[www.makrofol.com](http://www.makrofol.com)