



Makrofol® UV508 7-2 030003

Characterization

Makrofol® UV508 7-2 030003 is a transparent graphic PC-film based on Makrolon® Polycarbonate laminated with a special PVF based protective layer. The surface combination of Makrofol UV508 7-2 030003 is one side velvet and one side very fine matte. The protective PVF layer is the matte side.

Properties / Applications

Makrofol UV508 7-2 030003 is a high performance film that is formable and can be printed on the very fine matte, second surface, side with ink systems suitable for polycarbonate. Makrofol UV508 7-2 030003 provides both chemical resistance and UV stability and is a clear choice when it comes to harsh environments and exterior applications. Typical applications are gas pump graphics and nameplates and labels that might require high chemical resistance. Graphic labels requiring both chemical and long-term resistance to outdoor weathering are possible with Makrofol UV508 7-2 030003.

Makrofol UV508 7-2 030003 is available in various standard thicknesses from 0.015" to 0.030" (375 microns to 750 microns). Other thicknesses are available on request. As with any product, use of Makrofol UV508 7-2 030003 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.



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Typical Properties*

Property	Test Method	Unit	Value
General			
Specific Gravity	ASTM D-792		1.21
Gloss 60° top side Black inked second surface	ASTM D-2457	gloss unit	15 - 30
Surface			velvet/very fine matte
Mechanical			
Tensile Strength, Yield	ASTM D-882	MPa	58
Tensile Strength, Break	ASTM D-882	MPa	70
Elongation at Break	ASTM D-882	%	100
Tear Strength, Initiation	ASTM D-1004	N/m	200
Thermal			
Shrinkage, MD 130°C, 1h	IEC 60674-2	%	< 0.2
Shrinkage, TD 130°C, 1h	IEC 60674-2	%	< 0.2
Optical			
Light Transmittance	ASTM D-1003	%	>70
Yellowness Index	ASTM E-313		1
Other			
Water Absorption (immersion at 73°F/24h)	ASTM D-570	%	0.33
Weathering			
Xenon Arc, 3000 hrs.	boro/boro 0.55 W/m ² @ 340 nm	Δb*	<1
Chemical Resistance			
Data based upon technical information from the PVF supplier. Ratings apply to solid PVF resin only.			
MEK	1 hr, 73°F		no change
Acetone	1 hr, 73°F		no change
Xylene	1 hr, 73°F		no change
Isopropanol	1 hr, 73°F		no change
Gasoline	1 hr, 73°F		no change

These items are provided as general information only. They are approximate values and are not part of the product specifications.



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Other information

Makrofol® is a registered trademark of Covestro AG.
Makrolon® is a registered trademark of Covestro AG.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Covestro LLC representative or the Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

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 and information 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 us. 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.

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Editor: Covestro LLC
1 Covestro Circle
Pittsburgh, Pennsylvania 15205
United States
www.covestro.com

Contact:
8 Fairview Way South Deerfield, MA 01373
Tel. 413-665-7016

