



# Bayfol<sup>®</sup> UV-1 7-2 000000

## Characterization

Bayfol UV 1 7-2 000000 is an enhanced extrusion lamination film based on Makrolon<sup>®</sup> polycarbonate.

## Properties / Applications

Bayfol UV 1 7-2 000000 is virtually glare-free and has excellent scratch resistance, has been developed especially for critical graphic applications to provide UV resistance. Typical applications are gas pump graphics, harsh exterior environments, nameplates and labels.

Bayfol UV 1 7-2 000000 is available in various standard thicknesses from 0.007" to 0.030" (175 microns to 750 microns). Other thicknesses are available on request. The surface combination of Bayfol UV 1 7-2 000000 is one side velvet and one side very fine matte. As with any product, use of Bayfol UV 1 7-2 000000 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
<b>General</b>			
Specific Gravity	ASTM D 792		1.21
Conversion Factor		ft <sup>2</sup> /lb•mil   m <sup>2</sup> /kg•mm	159   0.826
Gloss 60° top side, black inked second surface	ASTM D 2457	gloss unit	4 to 9
Surface			velvet/v.f. matte
<b>Mechanical</b>			
Tensile Strength, Yield	ASTM D 882	psi	7,500
Tensile Strength, Break	ASTM D 882	psi	7,400
Elongation at Break	ASTM D 882	%	110
Tear Strength, Initiation	ASTM D 1004	lb/in	1,1100
<b>UV Resistance</b>			
Xenon Arc.	SAE J 1960	yellowness index	
300 hr.			1.0
600 hr.			1.5
800 hr.			1.6
1000 hr.			1.9
Auto Exterior, 3000 hr.	SAE J 2527 C2	Δ E	< 1.0
<b>Optical</b>			
Haze	ASTM D 1003	%	> 0.9
Light Transmittance	ASTM D 1003	%	> 70 (> 20 mil) > 80 (< 20 mil)
Yellowness Index	ASTM E 313		1
<b>Other</b>			
Water Absorption (immersion at 73°F/24h)	ASTM D 570	%	0.40

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## Typical Properties\*\* (CONT'D.)

Property	Test Method	Unit	Value
<b>Chemical Resistance**</b>			
Surface Contact @ 73°F for 1 hour			
Methyl Chloride			Fail
Acetone			Fail
Ethyl Acetate			Fail
Xylene			Fail
Isopropanol			Fail
Toluene			Fail
40% NaOH			Pass
Concentrated HCl			Pass
Butyl Cellosolve			Fail
Premium Gasoline, unleaded			Pass
Formula 409 <sup>®</sup>			Pass
Windex <sup>®</sup> with Ammonia-D <sup>®</sup>			Pass
Surface Contact @ 120°F for 24 hours			
Mustard			Fail
Formula 409 <sup>®</sup>			Pass
Windex <sup>®</sup> with Ammonia-D <sup>®</sup>			Pass

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

\*\* Failure includes permanent stain, blistering, delamination or cracking.

## 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.



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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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page 4 of 4

Document contains important information and must be read in its entirety.

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**Product Datasheet**