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/m² @ 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.

Note: This is a developmental product that is furnished for research and development purposes only. The information contained herein is merely preliminary data because testing as to properties is not final. Further information including data that could change or add hazards associated with use, may be developed. Such information may be needed to evaluate and/or use this product properly. The purchaser/user agrees that: use is undertaken at the purchaser's/user's sole risk, that the material is furnished "as is, with all faults," without any warranty or guarantee; and that Covestro LLC shall not be liable for any damages, of whatever nature, arising out of the purchaser's/user's receipt and/or use of the material. Commercialization and continued supply are not assured. The purchaser/user agrees that Covestro LLC reserves the right to discontinue supply at any time.

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