



MAKROFOL[®] DE 1-4 020209

Characterization

Makrofol DE 1-4 020209 is a white translucent extrusion film based on Makrolon[®] polycarbonate.

Properties / Applications

Makrofol DE 1-4 020209 offers excellent diffusion characteristics when printed or used as an overlay for trade show displays, signs and menu boards.

Makrofol DE 1-4 020209 is available in various standard thicknesses from 0.010 " to 0.025 " (250 microns to 635 microns). Other thicknesses are available on request. The surface combination of Makrofol DE 1-4 020209 is one side gloss and one side fine matte. As with any product, use of Makrofol DE 1-4 020209 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		1.20
Conversion Factor		ft ² /lb•mil m ² /kg•mm	161 0.833
Gloss 60° top side black inked second surface	ASTM D 2457	gloss unit	> 90
Roughness, R3z, top side	ISO 4287/88	µm	≤ 0.5
Roughness, R3z, reverse side	ISO 4287/88	µm	3 to 11
Surface			gloss/f.matte
Mechanical			
Tensile Strength, Yield	ASTM D 882	psi	8,860
Tensile Strength, Break	ASTM D 882	psi	8,360
Elongation at Break	ASTM D 882	%	110
Tear Strength, Initiation	ASTM D 1004	lb/in	645
Thermal			
Coefficient of linear thermal expansion parallel 20°C to 120°C	DIN 53752	10 ⁻⁶ /K	70
Coefficient of linear thermal expansion across 20°C to 120°C	DIN 53752	10 ⁻⁶ /K	70
Heat Deflection Temperature 1.82 MPa	ASTM D 648	°F	270
0.45 MPa			288
Vicat Softening Temperature, Rate A	ASTM D 1525	°F	297
Optical			
Haze	ASTM D 1003	%	99
Light Transmittance	ASTM D 1003	%	31
Other			
Water Absorption (immersion at 73°F/24h)	ASTM D 570	%	0.07

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



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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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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

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

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Product Datasheet