



BAYFOL® CR 6-2 000000

Polycarbonate/Polyester Blend Film

Description and Application

Bayfol CR 6-2 000000 is an extrusion film based on Makrolon® (PC)/Polyester (PBT) blend. It has advantages over standard polycarbonate films in terms of dynamic strength, dimensional stability and cold formability. This film, which is virtually galre-free and has excellent scratch resistance, has been developed especially for critical graphic applications and comprises a unique surface combination. Typical applications are automotive, keypads, membrane switches, hand held electronics, appliance, nameplates, touch panels and FIM - film insert molding decoration.

Bayfol CR 6-2 000000 is available in various standard thicknesses from 0.005” to 0.012” (125 microns to 300 microns). Other thicknesses are available on request. The surface combination of Bayfol CR 6-2 000000 is one side fine velvet and one side very fine matte for printability. As with any product, use of Bayfol CR 6-2 000000 in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability.

Typical Properties*

Property	Test Method	Unit	Value
General			
Specific Gravity	ASTM D 792		1.23
Conversion Factor		ft ² /lb-mil m ² /kg-mm	156 0.813
Gloss 60° top side, black inked second surface	ASTM D 2457	gloss unit	3 to 10
Gloss 60° reverse side	ISO 2813	gloss unit	--
Roughness, R3z, top side	ISO 4287/88	µm	11 to 17
Roughness, R3z, reverse side	ISO 4287/88	µm	≤ 9.0
Surface			f. velvet/v.f.matte
Mechanical			
Tensile Strength, Yield	ASTM D 882	psi	8,650
Tensile Strength, Break	ASTM D 882	psi	8,100
Elongation at Break	ASTM D 882	%	125
Tear Strength, Initiation	ASTM D 1004	lb/in	960
Thermal			
Coefficient of linear thermal expansion, parallel 20°C to 120°C	DIN 53752	10 ⁻⁶ /K	80
Coefficient of linear thermal expansion, across 20°C to 120°C	DIN 53752	10 ⁻⁶ /K	80
Shrinkage, parallel 90°C, 1h	IEC 60674-2	%	< 0.4
Shrinkage, across 90°C, 1h	IEC 60674-2	%	< 0.2
Heat Deflection Temperature			
1.82 MPa	ASTM D 648	°F	--
0.45 MPa	ASTM D 648	°F	--
Vicat Softening Temperature, Rate A	ASTM D 1525	°F	--
Flammability			
Burning Rate (FMVSS 302)	ISO 3795	mm/min	--
UL Listing	UL 94 V-0	min. thickness	--
UL Listing	UL 94 V-2	min. thickness	--
UL Listing	UL 94 VTM-0	min. thickness	--
UL Listing	UL 94 VTM-2	min. thickness	--
Optical			
Haze	ASTM D 1003	%	--
Light Transmittance	ASTM D 1003	%	> 80
Yellowness Index	ASTM E 313		1
Other			
Water Absorption (saturation)	ISO 62	%	--
Water Absorption (immersion at 73°F/24h)	ASTM D 570	%	0.35

Health And Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Bayfol CR 6-2 000000. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult your local Bayer MaterialScience representative or contact Bayer's Product Safety and Regulatory Affairs Department in Pittsburgh, PA.

Note: The information contained in this bulletin is current as of December 2011, please contact Bayer MaterialScience to determine whether this publication has been revised.

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