

Bayfol[®] CR 1-4 000000

Description and Application Information

Bayfol[®] CR 1-4 000000 is an extruded film based on a Makrolon(PC) / Pocan(PBT)-blend comprising high dynamic strength, good cold formability and increased chemical resistance.

The colour of Bayfol[®] CR 1-4 000000 is translucent nature, the surface combination is one side gloss - one side fine matte.

It is available in various standard thicknesses from 125 microns to 375 microns. Other thicknesses on request.

Typical applications are membrane switch overlays, nameplates, keypads and touch panels.

Guide data*

| General properties | | | |
|---|--------------|----------------------------|---------------------------------|
| Property | Value | Unit of measurement | Method |
| Density | 1,2 | g/cm ³ | ISO 1183, 20°C method C |
| Gloss, 60° top side | ≥ 99 | Digits | ISO 2813 |
| Gloss, 60° reverse side | ≤ 15 | Digits | ISO 2813 |
| Roughness R3z, top side | ≤ 0,5 | µm | following ISO 4287/88 |
| Roughness R3z, reverse side | ≤ 11 | µm | following ISO 4287/88 |
| Mechanical properties | | | |
| Property | Value | Unit of measurement | Method |
| Tensile Modulus | ≥ 2100 | MPa | |
| Stress at break, parallel | ≥ 55 | MPa | ISO 527-1,-3 |
| Stress at break, across | ≥ 55 | MPa | ISO 527-1,-3 |
| Strain at break, parallel | ≥ 120 | % | ISO 527-1,-3 |
| Thermal properties | | | |
| Property | Value | Unit of measurement | Method |
| Shrinkage, parallel 90°C, 1 h | ≤ 0,4 | % | following IEC 60674-2 |
| Shrinkage, across 90°C, 1 h | ≤ 0,3 | % | following IEC 60674-2 |
| Coefficient of linear thermal expansion, parallel 20 to 120°C | 80 | 10 ⁻⁶ /K | following DIN 53752 |
| Coefficient of linear thermal expansion, across 20 to 120°C | 80 | 10 ⁻⁶ /K | following DIN 53752 |
| Optical properties | | | |
| Property | Value | Unit of measurement | Method |
| Light transmittance | ≥ 80 | % | ISO 13468-2, following DIN 5036 |

* These values provide general information and are not part of the product specification.



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Labeling and REACH applications

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet.

Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.

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This product is not designated for the manufacture of a medical device (1) or of intermediate products for medical devices. This product is also not designated for Food Contact (2), including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro.

(1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

(2) As defined in Commission Regulation (EU) 1935/2004.

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Product Datasheet