



Bayfol[®] HX110

Description and Application Information

Bayfol[®]HX110 is a light-sensitive, self-processing photopolymer film which can be used to manufacture reflection and transmission volume-phase holograms. Bayfol[®]HX110 film can be recorded with appropriate laser light within the

spectral range of 440 nm to 660 nm. For the formation of the hologram no further post treatment is necessary (e.g. neither wet nor thermal treatment).

Bayfol[®]HX110 film consists of a three layer stack of a substrate, the light-sensitive photopolymer and a protective cover film. A polyethylene terphthalate (PET) substrate and a polyethylene terphthalate (PET) protective cover film are used.

Preliminary guide data

General properties			
Property	Value	Unit of measurement	Method
Typical substrate thickness	23 ± 2	microns	acc. to ISO 4593, 23°C
Typical photopolymer thickness	16 ± 2	microns	white light interferometer
Typical cover layer thickness	23 ± 2	microns	
Density	1.33	g/cm³	ISO 1183, 20°C, Method C

Storage conditions	The unrecorded photopolymer film should be stored in the original and sealed Covestro packaging that is used for delivery, whenever possible.	
	While the recorded film is quite stable, the unrecorded photopolymer film should be protected from light, humidity, heat and foreign materials.	
	Recommended storage temperature: 15 °C - 25 °C.	
Storage time	The storage time is still under testing while Bayfol [®] HX 110 film is a trial product.	
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.

This is a trial product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damage, of whatever nature, arising out of such use. Commercialisation and continued supply of this material are not assured. Its supply may be discontinued at any time.

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