



PLEXIGLAS®
Film

PLEXIGLAS® Film yellow 1F006

Product

PLEXIGLAS® Film 1F006 is a yellow transparent weather resistant acrylic film, especially developed for laminates.

The film shows an excellent performance in longtime outdoor weathering. It provides high protection of laminating systems from degradation caused by UV radiation.

Its very smooth surface leads the film to have an excellent optical quality surface.

Application

PLEXIGLAS® Film 1F006 is recommended for traffic control signs according to different standards like DIN 6171-1 and ASTM D4956-01.

PLEXIGLAS® Film 1F006 can be laminated on different polymeric films and sheets. Laminated decoration films based on PLEXIGLAS® are suitable for a wide range of molding processes such as thermoforming, and insert molding.

Thanks to its excellent optical properties and lamination with pressure sensitive adhesives (PSA), PLEXIGLAS® Film 1F006 is highly recommended for long-term outdoor applications, such as traffic control signs.

Processing

PLEXIGLAS® Film 1F006 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

The film can be cut-to-size or die cut.

PLEXIGLAS® Film 1F006 has a good behavior in all printing technologies such as gravure, flexography and digital printing. In most of the cases any pre-treatment or primers are not required.

High quality laminates can also be achieved using PLEXIGLAS® Film 1F006 and other polymeric substrates such as PET, PC, PP, PE and PVC, with the help of pressure sensitive adhesives (PSA) or solvent based adhesives.

Sales range

PLEXIGLAS® Film 1F006 is delivered on rolls, in a thickness of 75 µm and a width of 1270 mm.

Custom-made rolls can be produced under prior commercial agreement.



Technical data			
Properties	Test method	Unit	Value
Optical			
Color coordinate x (in transmittance, D65/10°)	DIN EN ISO 11664		0.4982
Color coordinate y (in transmittance, D65/10°)	DIN EN ISO 11664		0.4925
Luminous transmittance (D65/10°)	DIN EN ISO 11664	%	64.5
UV transmittance (280 – 380 nm)	DIN EN 410	%	< 0.5
Refractive Index	DIN EN ISO 489	%	1.49
Mechanical			
Tensile yield stress (σ_y)	DIN EN ISO 527-3	MPa	56
Yield strain (ϵ_y)	DIN EN ISO 527-3	%	6.5
Nominal strain at break (ϵ_{IB})	DIN EN ISO 527-3	%	40
Thermal			
Glass transition temperature T _g (DSC)	DIN EN ISO 11357	° C	113
Miscellaneous			
Accelerated weathering resistance	DIN EN ISO 4892-2, method A, cycle 1	h	5000 No visible change
Density	DIN EN ISO 1183	g/cm ³	1.17
Surface tension	DIN ISO 8296	mN/m	40

POLYVANTIS GmbH

Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark

Semi-finished polymethyl methacrylate (PMMA) products from POLYVANTIS are sold on the European, Asian, African and Australian continents under the registered trademark PLEXIGLAS®, in the Americas under the registered trademark ACRYLITE®, both owned by Röhm GmbH, Darmstadt, or its affiliates. Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.