

IKONOS PROFICOAT BACKLIT ULTRA CLEAR

PRODUCT DESCRIPTION:

Glass clear polyester film for face shields

Ikonos Ultra Clear is a highly transparent PET- film that is chemically primed on one or both sides to provide the slip necessary to handle and wind the film. Ikonos Ultra Clear is used in face shield applications and fulfills the optical requirements set forth in the standard for Personal Eye Protection EN 167:2001, § 4.2.2.

The film is not intended for use in the manufacture of impact resistant or industrial chemical face shields or goggles, except as an adjunct to the primary barrier, as it does not confer significant impact or corrosion resistance.

PRODUCT STRUCTURE:

Surface: matowa

Base: PET 175 µm, 245 g/m²

Both side treated

RANGE OF APPLICATION:

Ikonos Proficoat Ultra Clear PET with its superior transparency is a perfect base material for face protection products. The optical properties make it safe for to use without a risk of eyesight damage.

Product advantages:

- high light transmission
- distortion free view w/o die lines
- good processability
- die and laser cuttable
- cleanable with soft detergents or household glass cleaners

The properties shown in this technical data sheet only apply to the film itself. We cannot guarantee the properties of an intermediate or final product made from or using the film. Instead, the intermediate or final product must be subjected to standard industrial testing.

This data sheet reflects our state of knowledge at the time this was prepared. The purpose is to provide an overview of the characteristics of our products and their potential uses. The values given reflect the typical characteristics of the film. They are not specification limits. They are neither a guarantee of specific properties nor the suitability of products in specific applications. The user must observe industrial property rights, such as patents or trademarks. The quality of our products is covered by the terms of the General Conditions of Sale of IKONOS POLYESTER FILM.

Property	Thickness µm	Units	Value		Test Method	Test Conditions
			MD	TD		
MECHANICAL						
Tensile strength	175, 250	N/mm ²	190	220	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Elongation at break	175, 250	%	195	145	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
Young's Modulus	175, 250	N/mm ²	3900	4500	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 1 %/min.; 23 °C, 50 % r.h.
F5-value (stress to obtain 5% elongation)	175, 250	N/mm ²	110	105	ISO 527-1 and ISO 527-3 Sample type 2	Test speed 100 %/min.; 23 °C, 50 % r.h.
THERMAL						
Shrinkage	175, 250	%	1.0	0.1	DIN 40634	150°C, 15 min.
OPTICAL						
Transparency	175, 250	%	91		ASTM-D 1003-61 method A	-
Haze	175 250	%	1.0 1.5		ASTM-D 1003-61 method A	Enlarged measurement angle
Light diffusion	175 250	cd/m ² x lux	0.2 0.5		EN 167:2001, § 4.2.2	-
SURFACE						
Coefficient of friction (static)	175, 250	-			DIN53375 or ASTM-D 1894	-
Treated surface/ Treated surface			0.3			
Treated surface/ Untreated surface			0.35			
Untreated surface/ Untreated surface			blocks			
Gloss	175, 250	-	220		DIN 67530	Measuring angle 20°
PHYSICAL/CHEMICAL						
Density	175-250	g/cm ³	1.4		ASTM-D 1505-68 method C	23°C

Thickness µm	Yield		Roll length m	Rolldiameter mm		Roll length m	Rolldiameter mm
	g/ m ²	m ² / kg					
175	245		4.1	800	475	1 600	630

DURABILITY

The data concerns vertical surface exposure of an unprinted/unprocessed film. The outdoor durability relates to the temperate climate of Middle Europe. If the film is exposed to extreme weather conditions, such as austere insolation, high UV radiation or humidity it may undergo accelerated deterioration. PVC film may also weaken in greatly contaminated areas and regions of high altitude.

HANDLING & PROCESSING

Recommended storage conditions: 50% of relative humidity, 20 °C, in original packaging.

Customer should always store rolls together with label which consist information about type of product, dimensions of roll and batch number.

Any claims or requests will not be accepted without information about batch number.

During storage time shrinking of the edges of monomeric PVC film could be noticed.

To obtain good print quality/good processing results we recommend acclimatize rolls in printing/processing room min. 24 hour before printing/processing. Large fluctuations in temperature and humidity between the room and the material have an impact on flatness and printability of material.

If printed, the ink must be perfectly dry before further processing e.g laminating or application. Features of products could be changed by the residuals solvents. The surface on which product is applied must be free of dust, grease, lubricant and any other substances which may hinder the film from adhesion.

Due to wide range of possible uses and applications customers should independently verify the appropriateness of material for their explicit purpose, prior to use. We strongly recommend customers conduct own tests before each application.

IMPORTANT NOTICE

The information included in the present publication is based upon our knowledge as well as practical experience and can be changed without prior notice. All information always represents an average, a minimum or maximum value and should be considered as such.

This data is displayed only in order to serve as a source of information and is given without guarantee and does not constitute a warranty.

All presented information refers to unprinted/unprocessed Ikonos products. Features of products could change after printing/processing due to this reason all printed/processed Ikonos products are not covered by warranty.

Our limited liability relates only to the cost of the defective material which was bought by customer.

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