

FLYMARK®

DESCRIPTION		
Clear, gloss 20 microns polyester film, balanced, with an acrylic based adhesive, sensitive to the pressure Printing by screen printing process, laminated with a clear application tape		
RANGE OF APPLICATION		
Technical marking of exterior surfaces of aircraft Protection by specific aeronautical varnish is required		
TYPE OF FABRICATION		
Printing solely by screen printing process		
STANDARD PACKAGE		
According to customer's requirements : By unit Packets in plastic bag, kits Customer specific cardboard boxes,...		
TECHNICAL SPECIFICATIONS		
Following AIMS 04-16-002 - FLYMARK® - Unvarnished		
Film	ME 14	Clear PET film 20 µm
Adhesive thickness		Acrylic adhesive, 30 g/m ²
Ink thickness		6 ± 2 µm
Liner		Clear PET liner, 75µm
Film brightness	ME 01	> 100, under a 60° angle
Ink brightness	ISO 2813	> 80, under a 60° angle
Surface tension Unprinted film Layer of ink	The pens used to make the test were not produced following an ISO/DIN standard. But you can consider the conditions of tests closed to conditions described in DIN 53364 or ISO 8296 standards	32 mN/m ≤ x 32 mN/m ≤ x
Colorimetry	ME 03 AITM 2-0027	Range of colours following customer's request
Opacity	ME 04	Variable according to shade of colour, Y _w /Y _b > 0.60
Tensile strength	ME 13	3.4 N/mm
Elongation	ISO 527	53%
Peel test	ME 12 – After a 24h application on paint ISO 8510-2	Top coat ANAC : 0.43 daN/cm Base coat ANAC : 0.37 daN/cm Base coat MANKIEWICZ : 0.45 daN/cm
	ME 12 – After a 72h application on paint ISO 8510-2	Top coat ANAC : 0.44 daN/cm Base coat ANAC : 0.40 daN/cm Base coat MANKIEWICZ : 0.48 daN/cm
Shrinkage	ME 16 – After an exposure at 65° for 48h	Top coat ANAC: Shrinkage of 0.2% max. Base coat ANAC: Shrinkage of 0.2% max. Base coat MANKIEWICZ: Shrinkage of 0.2% max.
Cleaning with isopropyl alcohol (100%) or Essence F	N.A	No visual defaults

TECHNICAL SPECIFICATIONS

Following AIMS 04-16-002 - FLYMARK® - varnished :
Tests performed with the following protective varnishes:
Aviox Clearcoat UVR, ANAC
H/S Clearcoat 411-14, MANKIEWICZ

Brightness	ME 01 ISO 2813	> 90, under a 60° angle
Adhesion (cross test cutting)	ME 20 Varnishing : 4h after application Cross test cutting 7 days after varnishing ISO 2409	Top coat / Clear coat ANAC : Grade 0 Base coat / Clear coat ANAC : Grade 0 Base coat / Clear coat MANKIEWICZ : Grade 0
Chemical product resistance	Immersion and cross test cutting ME 26 – ME 20 and ME 20 ISO 2812/1 ISO 2409	Excellent resistance to water, to hydraulic fluids, to aircraft cleaning agents, to fuels, to de-icing agents Cross test cutting : Top coat / Clear coat ANAC : Grade 0 Base coat / Clear coat ANAC : Grade 0 Base coat / Clear coat MANKIEWICZ : Grade 0
Artificial ageing	ME 19 Exposure : 1000 hours Q-UV with UVB 313 lamps ISO 11507	Top coat / Clear coat ANAC : Grade 0 Base coat / Clear coat ANAC : Grade 0 Base coat / Clear coat MANKIEWICZ : Grade 0
Fastness to Xenon	ISO 11507	Top coat / Clear coat ANAC : Conform Base coat / Clear coat ANAC : Conform Base coat / Clear coat MANKIEWICZ : Conform
Temperature cycle resistance	AITM 2-0016 Exposure for 1500 hours cycles with : 12 min at +70°C 12 min at -60°C	Top coat / Clear coat ANAC : Conform Base coat / Clear coat ANAC : Conform Base coat / Clear coat MANKIEWICZ : Conform
Humidity resistance (continuous condensation)	ISO 6270 Exposure : 500h	Top coat / Clear coat ANAC : Grade 0 Base coat / Clear coat ANAC : Grade 0 Base coat / Clear coat MANKIEWICZ : Grade 0

Following AITM 2.0002 Issue 3 - FLYMARK® - Unvarnished

Vertical Flammability	Sub-contractor CTA (Spain) Internal test method ABD0031 – Issue F	Conform – Report CTA N°F14092-INR-1
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MISCELLANEAOUS

Applications conditions :
Temperature and relative humidity

15°C < T < 35°C and 30% < RH < 80%

FLYMARK® can be applied on a 24h clear coat and can be re-varnished immediately

Specific weight :

Film and adhesive : 56 g/m²

Ink (average done on the 6 masters) : 12 g/m²

OBSERVATIONS

For application, refer to the instructions in FLYMARK® Application instruction.

FLYMARK® must be varnished.

Store FLYMARK® products flat, in their original packaging, without compressing them, in a clean place, at a temperature between 15 and 35°C, and a moisture level between 30 and 80%.

Usage expiry date: 24 months from the date of manufacture, in storage conditions as defined above.

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