

DATASHEETS  
3.1 DATASHEETS STANDARD PRODUCTS

FasCal<sup>®</sup>  
Screen Products

420 MATT WHITE  
PERMANENT

<b>Face</b>	A matt white, calandered, soft, monomeric, plasticised, cadmium-free vinyl.		
	Caliper	:	80 micron
	Gloss	:	15 ISO 2813, 85°, MD
<b>Adhesive</b>	General purpose emulsion based, UV resistant, permanent adhesive with a high initial tack and high adhesion on most common substrates.		
	Min. application temperature	:	+10°C
	Service range temperature	:	-40°C to +100°C
<b>Backing</b>	A coated bleached kraft paper, especially designed for screen printing, as it features a minimal sensitivity to moisture and as a result maximum resistance to curl and edge waving under varying humidity conditions.		
	Basic weight	:	140 g/m <sup>2</sup>
	Caliper	:	145 micron
<b>General</b>	Shelf life	:	2 years stored at 22°C / 50-55% R.H.
	Durability	:	2 years when vertically exposed
	Printing method	:	Screenprinting is recommended
	Availability	:	Sheets: 100 x 70 cm S.G. Rolls: 1 x 250 m
	Uses	:	Promotional and window stickers, point of sale material and short term outdoor marking
<b>Note</b>	This material meets the European requirements of the toy regulations EN 71-3.		

# Physical and chemical characteristics

FasCal® 400/420/440  
Permanent

## General:

Caliper, facefilm	ISO 534	80 µm
Gloss : 400 Gloss 420 Matt 440 Transparent	ISO 2813, 20°, MD	60
	ISO 2813, 85°, MD	15
	ISO 2813, 20°, MD	80
Dimensional stability	DIN 30646	0.5 mm max.
Adhesion, initial	FINAT FTM-1, stainless steel	600 N/m
Adhesion, ultimate	FINAT FTM-1, stainless steel	800 N/m
Flammability		Self extinguishing
Shelf life	Stored at 22°C/50-55% RH	2 years
Durability*	Vertical exposure	2 years

### Important:

Information on physical and chemical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for their specific use.

## Thermal:

Application temperature	≥ 10°C
Service temperature	-40° to +100 °C

All technical data subject to change.

### Warranty:

FasCal® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied.

No salesman, representative or agent is authorised to give any guarantee, warranty, or make any representation contrary to the foregoing.

## Chemical:

Humidity resistance	120 hours exposure	No effect
Corrosion resistance	120 hours exposure	No contribution to corrosion
Water resistance	48 hours immersion	No effect
Sea water resistance	1 year half tide immersion BS 5609:1986	No effect
Solvent resistance	Applied to aluminium, exposed to: oils, greases, aliphatic solvents, motor oils, heptane, kerosene and JP-4 fuel	No effect

All FasCal® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

### \* Durability :

The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south in areas of long, high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased.

## Test methods

### Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to +70°C, after which the shrinkage is measured.

### Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

### Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

### Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration.

### Note:

Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, lyes etc. may eventually cause deterioration.

### Chemical resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after taking the panel out of the fluid the specimen is examined for any deterioration. (On some materials adhesion tests are also conducted after immersion.)

### Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure the film is removed and the panel is examined for traces of corrosion.

**PRODUCT DATA SHEET**

**PRODUCT:**

**LABEL PAPER: 12 MICRON POLYESTER - CLEAR CAST FILM**

**Technical Data:** Weight = 10 gsm  
Caliper = 12 Micron  
Opacity = Clear  
Tensile Strength  
(machine direction) = 210 mpa  
(cross direction) = 220 mpa  
Smoothness =

**NB This is not a product specification.**

**PRODUCT DATA SHEET****ADHESIVE: CL820**

Technical Data: Type = EMULSION ACRYLIC  
Coating Weight Target = 18.5 gsm  
Min. Application Temp. = 0°C  
Min Service Temp. = - 20°C  
Max Service Temp. = 80°C  
Initial Tack = HIGH  
Ultimate Adhesion = HIGH  
Cohesive Strength = HIGH

**PRODUCT DATA SHEET**

**RELEASE PAPER: Type: GLASSINE CALENDERED KRAFT**

**Technical Data: Weight = 67 g/m<sup>2</sup>**

**Caliper = 56 micron**

**Tensile Strength**

**(machine direction) = >7.1 kg/15mm min**

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**COMMENTS:**

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**NOTE:**

The recommendations for specific areas of end use are based on current experience.

Intended users are urged to determine, to their own satisfaction, the suitability of the product for the purpose intended. Samples will be made available for this purpose.

**WARRANTY:**

The information above is supplied in good faith, but without warranty.

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