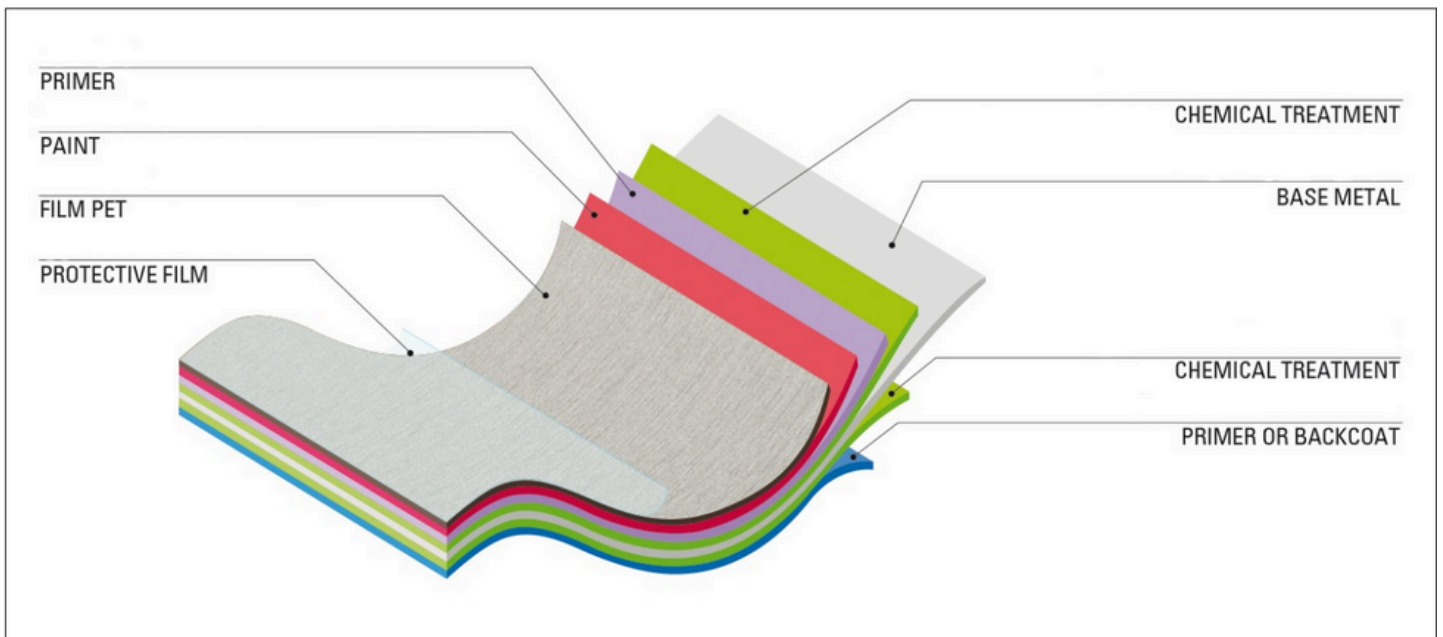




TECHNICAL FEATURES

CAP PET

Indoor use



The details presented in this technical data sheet are derived from our own experience and that of numerous customers. They are provided solely for technical support purposes and do not constitute any guarantee or implied liability. The user assumes full responsibility for the use of the product, taking into consideration its characteristics in relation to their intended application. Capital reserves the right to amend the information contained in this document without prior notice.

CAP PET is composed by a metallic substrate precoated with a paint layer onto which a PET film is co-laminated; this film can be transparent or printed in different colours and patterns, and offer a high or low gloss version. This product can only be used for indoor purposes and thanks to its features such as foodsafe approval, fire resistance, excellent stain resistance and mechanical workability can be used for many purposes and in many fields of application. Moreover, it should be underlined that CAP PET is a fully recyclable material.

FOREWORD

CAP PET: it's composed by a metallic substrate precoated with a paint layer onto which a PET film is co-laminated; this film can be transparent or printed in different colours and patterns, and offer a high or low gloss version. This product can only be used for indoor purposes and thanks to its features such as foodsafe approval, fire resistance, excellent stain resistance and mechanical workability can be used for many purposes and in many fields of application. Moreover, it should be underlined that VAR-PET is a fully recyclable material.

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- Furniture for shelves, metal storage cabinets, dental clinic furniture, vending machines
- Lifts and elevators cabins and doors for lifts
- Building panels, partitions, security doors, suspended ceilings, light fittings
- White goods and cooking dishwashers and washing machines, kitchen side panels and front doors of ovens
- Industrial refrigeration cooker hoods, drawers and cabinets.
- Cooling appliances coldrooms, drink coolers and dispensers, water coolers, refrigerators for medical purposes
- Kitchen furniture Cooker hoods, drawers and cabinets, kitchen doors
- Other Industrial applications insulated cabins, painting booths, suction ducts and systems
- Shipbuilding industry water boilers and heaters, air conditioners, fan-coils
- HVAC industry Air handling units, water boilers, heating elements

METALLIC SUBSTRATES

- HDG steel
- Cold-rolled steel
- Electrogalvanized steel
- Aluminium
- Stainless steel

SIZES	
Substrate thickness	From 0.30 to 2.0mm.
Substrate aluminium th.	From 0.5 to 2.0mm.
Max. coil size	1500 mm
Min. coil size	700 mm.
Coil ID	500 mm.
Max. strip width	1500 mm.
Min. strip width	19 mm.
Max. sheets size	1500 x 6000 mm
# minimum thickness x sheet cutting process 0.45mm	
COATING OF UPPER FACE	
	30-55 µ organic coating
	Self-sticking peeling protective film (to be removed not later than 6 months after Varcolor's manufacturing date. In the absence of a protective film, the customer assumes the responsibility for any pressure marks and small defects arising from your production process. The suitability of the protective film for its production process / finished product must be confirmed by the customer through specific tests

		BACKSIDE COATING	
			3-5 micron thick primer, suitable for foaming/gluing with PUR or glues (all foaming/gluing tests have to be performed by the customer and are on his behalf)
		On request:	PColoured backing-coat 10-12 micron (+/- 2 micr.)

Table of comparison between CAP PET and all other precoated materials available on the market

	CAP PET	Printed PVC	Plain colour PVC	Pvc/Pet
Foodsafe status These codes are excluded : BL360 L, BL389 L, BK389 L, GN359 L, MET 61 L, MET 62 L, OR357 L, RE351 L	yes	no	*	yes
Résistance to solvents	yes	no	no	yes
Résistance to stains	yes	no	no	yes
Anti-graffiti coating	yes	no	no	yes
Deep drawing	yes	yes	yes	yes
Possible whitening on bending	no	yes	yes	yes
Full recyclability	yes	no	no	no

* only with special formulation

We reckon that CAP PET, thanks to its features, is the most performing material among all precoated steels available on the market these days, and we want to underline the fact that there's no use of PVC films, which represents an enormous advantage from an environmental point of view.

GENERAL FEATURES		Test norms	Test results
CG.1S	Coating thickness	UNI EN 13523-1	30-55 µ organic coating
CG.2	Colour	UNI EN 13523-3	For printed: Not measurable. Solid color: BEIGE : DE MAX 1 BLACK: DE MAX 1,50 BLUE : DE MAX 1,50 BROWN : DE MAX 1,50 GREY : DE MAX 1,50 GREEN :DE MAX 1 MET : only visual check for paint uniformity ORANGE : DE MAX 2 RED : DE MAX 2 VIOLET : DE MAX 1,50 WHITE : DE MAX 1

			YELLOW : DE MAX 2 To obtain a better uniformity in different supplies, it should be agreed to manufacture once and deliver in successive batches. Color differences between the various deliveries are admissible.
CG.3	Gloss level	UNI EN 13523-2	
	Smooth glossy finish		> 80 gloss
	Smooth matt finish		20-30 gloss
CG.4	Maximum temperature range for end use	-20 °C + 80 °C	No remarkable variations

MECHANICAL FEATURES		Test norms	Test results
CM.1 CM.2	Adhesion after drawing 6 mm	UNI EN 13523-6	Good
CM.3	Adhesion after cupping	UNI EN 13523-7	≥ 1 T
CM.4	Pencil hardness	UNI EN 13523-4	H-2H
	Resistance to cracking on bending (T-bend test)	UNI EN 13523-7	≥ 2 T free of cracks (*) (* in case of an aluminum support it depends on the type of alloy and the thickness of the support.
CM.5	Surface scratch resistance	UNI EN 13523-16	Weight loss 25-28 mmg
CM.6	Resistance to rapid deformation (impact test)	UNI EN 13523-5	16 J no visible cracks using a magnifying lens 10x

CHEMICAL-PHISYCAL FEATURES		Test norms	Test results
CCF.1	Resistance to water	UNI EN 13523-9	No loss of adhesion or blisters
CCF.2	Corrosion resistance	UNI EN 13523-8	
	Hot dipped galvanised steel		360 h creepage max 2 mm no blisters
	Electro-galvanised steel		360 h creepage max 2 mm no blisters
	Cold-rolled steel		190 h creepage max 2 mm no blisters
	Stainless Steel A304 2B *		1.000 h Without creepage no blisters
	Stainless Steel A430 2B *		360 h creepage max 2 mm no blisters
	Aluminium		1.000 h Without creepage no blisters
CCF.3	Resistance at 100% relative humidity	UNI EN 13523-26	
	Hot dipped galvanised steel		750 h no blisters

	Electro-galvanised steel		750 h no blisters
	Cold-rolled steel		500 h no blisters
	Stainless Steel A304 2B *		1.500 h no blisters
	Stainless Steel A430 2B *		750 h no blisters
	Aluminium		1.000 h no blisters
CCF.4	Resistance to solvents		
	Alcool butilico 15%, alcool etilico 15%, alcool isopropilico 15%	24 hrs contact	No stain build-up
CCF.5	Stain resistance (room temperature)	UNI EN 13523-18	
	Lemon, oil, coffee, mustard, tomato puree, lipstick	72 hours contact	No marks or stains in the contact areas
CCF.6	Resistance to rubbing	UNI EN 13523-11	>50 double strokes of MEK on flat part

The test results refer to a non-treated surface. In case of scotch bright and hair-line products, the tests are in function of the degree of the surface roughness

CERTIFICATIONS		Test norms	Test results
CER.1	Reaction to fire classification for building products	EN 13501	Classification A1

CLEANING INSTRUCTIONS FOR VAR PET PRODUCT

P.1	General rules
	In order to clean the surface please use only water and neutral soap. It's advisable to use a soft cloth, rinsing and drying up the surface with care. Please avoid using cleaning agents containing abrasive particles.
P.2	Removal of small stains
	Surface stains can be removed using mineral turpentine or denatured alcohol.

WAREHOUSING AND PROCESSING VAR PET

D.1	Coils or pallets of precoated materials should be stored under a roof and in places not subject to big changes of temperature in order to avoid the possibility of condensation.
D.2	Materials protected with peeling film for temporary protection must be placed far away from heat/humidity sources and not exposed to direct solar rays. The protective peeling film should anyway be removed within and not later than 6 months from Varcolor's manufacturing date.

D.3	During transport the material must be protected from moisture and condensation. It must be loaded on vehicles in such a way as to ensure protection from collisions, abrasions and overturning.
L.1	Precoated materials should be preferably utilized (within six months from reception) and using appropriate machines to avoid abrasions, scratch, cuts, marks on the film surface and/or cracks of the same or even of the zinc layer.
L.2	During roll forming or bending it is necessary that the tools should contemplate not only the thickness of the material the possible tolerances so as to avoid relaminations.
L.3	As far as flatness of strips and coils is concerned, please do refer to what mentioned in UNI EN 10143.
L.4	The ideal temperature at which materials must be formed or bent or punched should be around 18° C.
L.5	The protective film applied on the products Varcolor BL360L, BL389 L, BK389 L, GN359 L, MET 61 L, OR357 L, RE351 L must be removed as soon as possible and no later than three months after application. The protective film must not be left on your product that you have made.

Production range :

Cold rolled steel Electrogalvanized steel HDG steel		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0
Width (mm)	700/800	●	●	●	●	●	●	●	●	●	●	●
	800/900	●	●	●	●	●	●	●	●	●	●	●
	900/1000	●	●	●	●	●	●	●	●	●	●	●
	1000/1100	●	●	●	●	●	●	●	●	●	●	●
	1100/1200	●	●	●	●	●	●	●	●	●	●	●
	1200/1300	●	●	●	●	●	●	●	●	●	●	
	1300/1400		●	●	●	●	●	●	●	●		
	1400/1500		●	●	●	●	●	●	●	●		

Stainless steel		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0			
Width (mm)	700/800		●	●	●	●	●	●	●			
	800/900		●	●	●	●	●	●	●			
	900/1000		●	●	●	●	●	●	●			
	1000/1100		●	●	●	●	●	●	●			
	1100/1200		●	●	●	●	●	●	●			
	1200/1300		●	●	●	●	●	●	●			
	1300/1400			●	●	●	●	●	●			
	1400/1500			●	●	●	●					

Aluminium		Thickness (mm)										
		0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0			
Width(mm)	700/800			●	●	●	●	●	●			
	800/900			●	●	●	●	●	●			
	900/1000			●	●	●	●	●	●			
	1000/1100			●	●	●	●	●	●			
	1100/1200			●	●	●	●	●	●			
	1200/1300			●	●	●	●	●	●			
	1300/1400				●	●	●	●	●			
	1400/1500				●	●	●	●	●			



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If the processing carried out does not comply with the parameters indicated, the customer assumes responsibility for the processing carried out.

Acceptance

Date :

Company stamp :

Name and signature of the authorised person :