PV528CT

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Version #1 (11/26)
Approved by THL

Product Print Vinyl Cold Temp PV528CT

Product Description

PV528CT is a 3.2-mil soft; non-top coated, **matte** white polymeric stabilized vinyl coated with a clear high tack acrylic, permanent adhesive. The liner is a 90#, PE coated on both sides that provides excellent lay flat. This durable flexible vinyl has good outdoor durability. The adhesive is high tack, sticks to LSE materials and can be applied at temperatures below freezing.

PRINT VINYL COLD TEMP sticks to powder coated paints, low VOC wall paints, polyethylene, polypropylene, and many other surfaces. Its high-tack adhesive and cold-temperature application capability make it an excellent problem solver for challenging surfaces and demanding installation conditions. Suggested uses include screen-printed decals, markings, point-of-purchase displays, durable decals, and indoor/outdoor signage.

Can be installed at temperatures down to 15 degrees Fahrenheit.
Service temperature range is -65°F to +180°F

Physical Properties

Property	Typical Values	Test Method
Thickness, inches (µm)		
Face plus adhesive	0.0045 (112)	
Face, adhesive & liner	0.0110 (275)	
Quick Tack lb. /in² (N/25mm)		MACtac CTM-25
Stainless Steel	3.5 (15.3)	
Peel Adhesion lb./in. (N/25 mm)		PSTC-1
Stainless Steel		
- 30 min.	4.7 (20)	
- 24 hrs.	8.1 (34)	
Dimensional Stability, inches (mm)		MACtac CTM-21 (Method D) Bonded to aluminum
48 hours @ 158°F		
MD	0.06 (1.5)	
CD	0.04 (1.02)	
Tensile, lb. /in.(N/15 mm)		ASTM D-882
MD	8.0 (21)	
CD	6.0 (16)	
Elongation, %		
MD	150	
CD	80	

Durability

Seven years indoors and up to 5 years outdoors**.** This use-life estimate is based upon accelerated age studies. Please note that exposure to severe temperatures, ultra-violet light and also in tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure.

Shelf Life

This product is good, unprinted, for two years when stored at 75°F (24°C) and 50% relative humidity or less.

Approved Print Materials

Screen Printing:		HP Indigo	☐
UV Cured	☒	Off-set	☐
Solvent	☒	UV Off-set	☒
WF Digital: UV Inkjet	☒	Thermal Transfer	☒
Eco-solvent	☒	Flexographic *	☐
True solvent	☒	UV Flexographic	☒
Canon UVgel 356	☒	Narrow Web UV Inkjet	☒
Latex	☒		

*** Flexographic Printing** requires a topcoat. WVG000113 has been approved by ACTEGA Coatings and Sealants (ww.altana.com) as in-line coat-able ink primers.
To achieve the best possible print quality, please make sure that the correct ICC profiles or printer settings are used. Profiles can be obtained from our Distributors or can be downloaded from www.mactac.com . Printer and heater settings and ICC profiles can also be downloaded from some O.E.M. or software manufacturer's websites.

The ICC profiles are provided solely as a customer resource. Print environments, the individual nature of printing systems, inks and software can significantly affect output. It is the customer's responsibility to determine the suitability of any profile for use in their specific print environment.

Limitations

1) **The user is responsible for determining the product's suitability, including adhesion and if needed, removal characteristics when used in applications other than listed specifically in this Performance Guide.**
2) **If there are any questions about applications, please contact your Mactac sales representative to discuss your requirements for recommendations.**
3) **If this is a printed Performance Guide it is an uncontrolled document. Please check the Mactac website for the latest, most up-to-date version**

Recommendations

Always test your combination of Print Vinyl products, inks and laminating films prior to commercial use.

1) **Printing Conditions:** Print in conditioned pressroom at ±73°F (23°C) and 50% RH. The maximum allowable ink saturation is 270%.

2) **Drying Requirements:** Solvent, Eco-solvent and Mild-solvent inkjet prints require 24 - 48 hr. drying time - open to the air. Inks do not dry when printed media is rolled up. The prints must be dry prior to lamination.
3) **Laminating Conditions:** If the printed graphic is likely to be exposed to corrosive liquids, smoke, fumes, and highly polluted areas or there is a likelihood of scratching, it is highly recommended to laminate with **LUV** Series (intermediate) overlaminating films.
4) **Transportation Conditions:** To allow for easy transportation, **Print Vinyl** series can be rolled up, with the image out, with a minimum diameter of 6 inches (15cm). When the image is not protected by an overlaminate, make sure the print is completely dry and protected in a plastic bag. During transportation or storage, avoid exposing them to extreme temperature and humidity changes.
5) **Applications:** This film is recommended for use in **flat to moderately curved surfaces** on:
    a. Vending or dispensing machines and cooler graphics
    b. Indoor and outdoor graphics and signs
    c. Small format OEM decorative and identification graphics
6) This film is **not recommended** for use on:
    a. Corrugated or complex surfaces
    b. Over rivets
    c. On flexible substrates (banners, canvas, etc.)
    d. Painted surfaces that are not thoroughly cured or properly bonded to the substrate.

- *Values given are typical for unprocessed product and are not for use as specifications. Processing may change the values.*

CALL **1-800-321-8834 for additional product information**

IMPORTANT NOTICE: The information given and the recommendations made herein are based on our research and are believed to be accurate, but no guarantee of their accuracy or completeness is made. In every case, user shall determine before using any product in full scale production, or in any way, whether such product is suitable for user's intended use for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or fitness for a particular purpose, or any other warranty, express or implied. No representative of ours has any authority to waive or change the foregoing provisions, and no statement or recommendation not contained herein shall have any force of effect unless in an agreement signed by the officers of seller and manufacturer. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. The following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.
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