

## Technical Data Sheet

# LUV 6301

### **PERMACOLOR**

The PERMACOLOR system is a series of pressure-sensitive products used for mounting and protecting in the imaging industry. Pressure-sensitive PERMACOLOR provides fast, efficient processing through roll lamination techniques without the need for heat or drying.

The LUV range of products has specifically been designed for the protection of digital UV prints. It is however also compatible with other standard digital printing techniques like SB, ecosolvent and latex.

### **PRODUCT DESCRIPTION**

**LUV 6301** belongs to the **PERMAFLEX Series** which is a family of thick films, coated with acrylic pressure-sensitive adhesive on one side. These unique films are particularly suitable to protect digital prints used as indoor floor graphics from abrasion due to pedestrian traffic. They can also be laminated to either one or both sides of photographic prints or transparencies to protect, enhance appearance and provide sufficient rigidity to eliminate the need for mounting to traditional flat substrates in many applications. These laminates also retain enough flexibility to allow images to be used in non-flat configurations such as on cylindrical displays. This feature also permits the laminate to be rolled for easy transport or storage.

### **LUV 6301**

- is a 100 µ clear PVC film with a semi matt sand structure finish that helps eliminate glare and provides a very unique and pleasant finish
- has a high tack adhesive suitable for laminating both UV, SB, ecosolvent and latex digital prints
- not only provides protection from abrasion and moisture; it also helps retard colour fade caused by ultraviolet light exposure
- does not influence the pH level of substrate to which it is applied
- is approved by ASTM C 1028-2007 "Friction Test" for slip resistance
- can be used in areas where people walk bare-foot as it is certified Class A according to DIN 51097.

Note : as any flooring material, can be slippery when wet or dirty

### **PHYSICAL PROPERTIES**

	<b>Typical values</b>	<b>Test method</b>
<b>Adhesive</b>		
Quick Tack on glass (N/25 mm)	17	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	14	FTM 1
- after 24 hours	18	FTM 1
Gloss (85° angle)	12	ASTM D-523
Dimensional stability		
- MD	1 %	FTM 14
- CD	1 %	
Flammability	self-extinguishing	Sample mounted on aluminium
<b>Release Liner</b>		
One side siliconized unprinted paper	80g/m <sup>2</sup>	ISO 536

### **HEAT RESISTANCE**

Application temperature range : - 15°C to + 50°C  
End-use temperature range : - 30°C to + 60°C

*For temperatures outside those quoted above, please consult MACtac.*

## **SHELF LIFE**

2 years when stored at 15 to 25°C and  $\pm$  50 % relative humidity.

## **CHEMICAL RESISTANCE**

Resistant to short periods of immersion in water and short contact with detergents, alcohol and some aliphatic solvents. Not recommended for contact with ketones, esters, aromatic solvents and chlorinated hydrocarbons.

*For further technical advice, please consult MACtac.*

## **EXPECTED DURABILITY**

The expected durability of the unprocessed product in Central Europe (Zone 1) is up to

- 2.5 years when used as vertical display (indoor)
- 3 months when used in the production of floor graphics (indoor)  
(please refer to MACtac Floor Graphics User Guide).

This information is based on successful real life experience and artificial aging according to ISO4892-3.

**Note** : *Exposure to severe temperatures, ultra-violet light as well as conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitude and south facing exposure. No durability warranty is given for horizontal exposure. For more information, please refer to Technical Bulletin 7.5: "Outdoor Durability of combined MACtac print media and laminates".*

## **RECOMMENDATIONS**

For vertical outdoor use, care should be taken to protect the sides of the laminates with silicone in order to avoid water infiltration.

LUV 6301 should be maintained clean to keep its slip resistance.

Due to the increasing number of new printing methods appearing on the market, it is important for the Converter to suitably himself about the suitability of LUV 6301 for the application to the printed image.

Storage : MACtac recommends that rolls be stored on end or suspended from the core.

### Transport

- allow the maximum amount of time after lamination, preferably overnight, before rolling for transport,
- roll the largest diameter possible, no less than 30 cm diameter,
- roll with LUV 6301 to the outside.

### Trimming

- allow at least one hour after lamination, 24 hours optimal,
- support LUV 6301 fully from below.

## **IMPORTANT NOTICE**

*All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.*

*Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.*

*Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.*

*All specifications are subject to change without prior notice.*