



# ARTYSIO PACKAGING 5413 NW P&P PP DM VFFS 94 W

5413, 93 µm

Water-based inkjet printable white PP based laminated film suitable for primary flexible packaging of food & non-food applications. Suitable for single pass printing technologies with dye and pigmented inks.

Due to the design of the product and the very fast fixing of water-based ink, ARTYSIO Packaging 5413 is particularly suitable for print&pack applications, where packages are printed and filled inline in a single production step. The machinability of this film laminate was designed for use on vertical packing lines as form fill & seal (VFFS) for free-flowing products.

Its excellent sealing properties are characterised by maximum product safety, very strong seals (heat seal and ultrasonic) and superb machinability on printing and packing machines.

ARTYSIO Packaging grade 5413 also provides easy opening function for best consumer convenience. Owing to its good barrier for water vapour, this product is suitable as primary packaging, for example for cereals, chocolate products or confectionery

## Advantages

- Ideal concept for smaller packaging lot sizes on high diversity of artwork designs
- Freedom of layout individualisation without any cost add-on
- Personalised packaging as a value add for consumer gifts & events – enable new business concepts of your products at POS due to our functional packaging material
- No lead time for external printed packaging material – Our product defining the time to market
- Saleable products, packed and printed within minutes – 100 times less set up time in comparison to analogue printing technology
- No storage of pre-printed packaging films necessary
- Significant reduction of working capital in comparison to traditionally made packaging material

## General tips

The product should be stored in its original packaging at a room temperature of 10°C – 30°C and a relative humidity of 20 – 70%.

The product is designed for use as primary packaging material. We would be pleased to prepare a corresponding declaration of conformity taking into account the application-specific conditions.

## Technologies



## Physical data

Name	Value	Tolerance	Norm
Thickness (film) [µm]	93		ISO 4593
Weight [g/m <sup>2</sup> ]	94		ISO 536
Bending stiffness MD [mN]	39		ISO 2493-1; 15°/10mm
Bending stiffness CD [mN]	37		ISO 2493-1; 15°/10mm
Whiteness, CIE D65/10°	85		ISO 11475
Chromaticity (D50/2°) L* M0	98.5		ISO 13655, M0
Chromaticity (D50/2°) a* M0	-0.2		ISO 13655, M0
Chromaticity (D50/2°) b* M0	1.5		ISO 13655, M0
Gloss (60°)	46		ISO 2813
Opacity [%]	82		ISO 2471
Water Vapour Transmission Rate [g/m <sup>2</sup> *d]	0.5		DIN 53122 (23°C / 85% r.H.)
Oxygen Transmission Rate [m <sup>2</sup> *d*bar]	488		DIN 53380-3 (23°C / dry)
CoF Value kinetic	0.2	±0,05	ASTM D1894

## Durability

Minimum shelf life 1 year from production under consideration of the above storage parameters.

## Printing instructions

We recommend applying a varnish or laminate to the printed image for protection.