

# DATA SHEET

## TYPE: PR 105 4D

Calendered, rigid PVC film. The formulation of our product is in compliance with Regulation (EU) No 10/2011. The rest monomer content regarding Vinylchlorid is max. 1,0 ppm. The film complies with the guideline 94/62 EC ("Packaging and Packaging waste") and is suitable for direct contact with foodstuffs.\*

\* except for surface 504x, which is technical quality

**Characteristics** Transparent rigid PVC film, impact modified. Suitable for offset UV-, digital-, screen-, flexo and gravure printing. An anti-glare effect and scratch resistance can both be achieved with an embossed surface.

Surface finish	gls/gls (2020)	mtt/gls (5020)	mtt/smt (5030)	mtt/cmt (5040)
Thickness range (mm)	0,080 - 0,400	0,100 -	0,100 -	0,100 - 0,400
Embossings **	Fine	Grob 1	Grob 2	

\*\* further embossings upon request

Roughness (Rz $\mu$ m)	3 - 6	10 - 14	20 - 30
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**Colours** Standard: transparent clear 0015. Colours according to the colour swatch

Properties	Value	Unit	Test method
<b>Thickness tolerances</b>			
< 0,200 mm	$\pm 10$	%	In accordance to DIN ISO 4593 (95% of all measurements)
0,200 – 0,400 mm	$\pm 7$		
<b>Density</b>	1,34 $\pm$ 0,02 (without pigments)	<b>g/cm<sup>3</sup></b>	DIN EN ISO 1183-1:2004
<b>Tensile impact strength</b>	> 600 (surface gls/gls)	<b>kJ/m<sup>2</sup></b>	DIN EN ISO 8256
<b>Tensile strength</b>	> 46	<b>N/mm<sup>2</sup></b>	DIN EN ISO 527-1-3
<b>Vicat softening point</b>	77 $\pm$ 2	<b>°C</b>	DIN EN ISO 306 procedure VST/B50 as pressed sheet
<b>MD expansion due to heat ***</b>	(gls/gls)	%	In accordance to DIN 53377 (140°C/10min)
< 0,100	max. -15		
< 0,200 mm	max. - 7		
0,200 – 0,400 mm	max. - 5		
<b>***+ 3% in case of embossed films</b>			
<b>Surface tension</b>	gls/gls (2020) $\geq$ 34 both sides	nN/m (dyn/cm)	In accordance to DIN ISO 8296:2008-03 measured with inks (pens)

### Processing advice:

To avoid static, the film should be processed at room temperature of 20 to 23°C and a relative humidity between 50 - 60 %.

### Storage condition

We recommend storing in original packaging at room temperature below 30°C not directly exposed to sun light and humidity. After transport and storage in cold temperature, acclimatisation of 1 hour per reel diameter or stacking height is necessary.

All information is given in good faith but without warranty