

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, high 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/cmt (5040)
----------------	----------------	----------------	----------------

<b>Thickness range (mm)</b>	0,100 - 0,600	0,150 - 0,600	0,100 - 0,400
-----------------------------	---------------	---------------	---------------

Embossings **	Fine	Grob 1	Grob 2
---------------	------	--------	--------

Roughness (Rz $\mu\text{m}$ )	3 - 6	10 - 14	20 - 30
-------------------------------	-------	---------	---------

\*\* further embossings upon request

**Colours** Standard: transparent clear 0015  
Colours according to the colour swatch

Properties	Value	Unit	Test method
<b>Thickness tolerances</b>			In accordance to DIN ISO 4593 (95% of all measurements)
< 0,200 mm	$\pm 10$	%	
0,200 – 0,400 mm	$\pm 7$		
> 0,400 mm	$\pm 5$		
<b>Density</b>	1,32 $\pm$ 0,02 (without pigments)	<b>g/cm<sup>3</sup></b>	DIN EN ISO 1183-1:2004
<b>Tensile impact strength</b>	> 650 (surface gls/gls)	<b>kJ/m<sup>2</sup></b>	DIN EN ISO 8256
<b>Tensile strength</b>	> 44	<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)		
< 0,200 mm	max. - 7	%	In accordance to DIN 53377 (140°C/10min)
0,200 – 0,400 mm	max. - 5		
> 0,400 mm	max. - 4		
*** +3% in case of embossed films			
<b>Surface tension</b>	gls/gls (2020) $\geq$ 34 both sides	<b>nN/m (dyn/cm)</b>	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 conditions:**

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.