

Type: PR 105 4D

Calendered, rigid PVC film. The film complies with the EU – Regulation 10/2011\* according to article 16 and 22 and amendments (“Clearance Certificate for items used in contact with foodstuffs”) as well as with 94/62 EC (“Packaging and Packaging waste”).

\* Product placed on the market based on the requirements set out in Directive 2002/72/EC are still valid until 5 years after the adoption of the regulation.

**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 - 0,300	0,100 - 0,300	0,100 - 0,400

Embossings **	Fine	Grob 1	Grob 2
Roughness (Rz µm)	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> < 0,200 mm 0,200 – 0,400 mm > 0,400 mm	± 10 ± 7	%	In accordance to DIN 53370 (95% of all measurements)
<b>Density</b>	1,34 ± 0,01 (without pigments)	g/cm <sup>3</sup>	DIN 53479
<b>Tensile impact strength</b>	> 600 (surface gls/gls)	kJ/m <sup>2</sup>	DIN EN ISO 8256
<b>Tensile strength</b>	> 46	N/mm <sup>2</sup>	DIN EN ISO 527-1-3
<b>Vicat softening point</b>	77 ± 2	°C	DIN EN ISO 306 procedure VST/B50 as pressed sheet
<b>MD expansion due to heat ***</b> < 0,200 < 0,100 mm 0,200 – 0,400 mm	(gls/gls) max.- 7 / 15 max.- 5	%	In accordance to DIN 53377 (140°C/10 min)

\*\*\* + 3% in case of embossed films

<b>Surface tension</b>	gls/gls (2020) ≥ 34 both sides	mN/m (dynes/cm)	In accordance to DIN 53364 measured with inks (pens)
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**Processing advice:**

To avoid static, the film should be processed at room temperature of 20 to 23° 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 cm reel diameter or stacking height is necessary.