Technical Datasheet

Specialty Films Solutions

Bilcare Research

Type: PR 107 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. 0,5 ppm. The film complies with the guideline 94/62 EC ("Packaging and Packaging waste") and is suitable for direct contact with foodstuffs.

Characteristics Transparent rigid PVC film, high impact modification. 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)**
Thickness range (mm)	0,100 - 0,600	0,150 - 0,600	0,100 - 0,600

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**
Thickness tolerances < 0,200 mm 0,200 – 0,400 mm > 0,400 mm	 ± 10 ± 7 ± 5	**%**	In accordance to DIN 53370 (95% of all measurements)
Density	1,32 ± 0,01 (without pigments)	**g/cm³**	DIN 53479
Tensile impact strength	> 650 (surface gls/gls)	**kJ/m²**	DIN EN ISO 8256
Tensile strength	> 44	**N/mm²**	DIN EN ISO 527-1-3
Vicat softening point	77 ± 2	**°C**	DIN EN ISO 306 procedure VST/B50 as pressed sheet
MD expansion due to heat ** < 0,200 0,200 – 0,400 mm > 0,400 mm	(gls/gls) max.- 7 max.- 5 max.- 4	**%**	In accordance to DIN 53377 (140°C/10 min)
** *+ 3% in case of embossed films*			
Surface tension	gls/gls (2020 ≥ 34 both sides	**mN/m** (dynes/cm)	In accordance to DIN 53364 measured with inks (pens)

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 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 cm reel diameter or stacking height is necessary.