

Technical Data Sheet



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Rigid PVC-film: **PENTAPRINT PR M180/25**

previous nomenclature:
PENTAPRINT DR 180/29

Colour: **51/9400 - glassclear bluish** - 16200
51/9500 - glassclear bluish - 16100
71/9400 - glassclear colour neutral - 10100

Surface: **483_7 - matt / matt** - 415

This calendered rigid PVC films are produced without plasticizers. Regarding the heavy metal limits they meet the requirements of the EC directive 94/62/EC and their supplements 99/42/EC and 99/177/EC.

They are in conformity with the commodity law (Bedarfsgegenständeverordnung) dated 23.12.1997 that converts the EC directive 90/128/EEC, 92/39/EC, 93/3/EC, 95/3/EC, 96/11/EC, 99/91/EC into German legislation. All monomers are mentioned in attachment 3, paragraph A of the said law.

The film also corresponds to the directives of the German BgVV, recommendations II and IX. Residual VC-monomer content < 0,5 ppm (in conformity with the EU-directive 78/142/EEC, annex I).

Specific properties: - medium impact strength
- suitable for offsetprinting

Properties	Standard	Value	Unit	Remarks
Thickness	DIN 53370	140 - 800	mic	tolerances: ± 10 % (≤ 200 mic) ± 7 % (201 ... 400 mic) ± 5 % (> 400 mic)
Density	DIN 53479	1,33 ± 0,02	g/m ²	incl. pigmentation
Tensile strength - depends on thickness	DIN EN ISO 527-3	≥ 42	N/mm ²	test speed V (50 mm/min); measured lengthwise
Tensile impact strength	DIN EN ISO 8256	≥ 450	kJ/m ²	measured lengthwise
VICAT-softening point	DIN EN ISO 306	74 ± 2	°C	measured in oil, 5 kg
Shrinkage - longitudinal - traverse	DIN 53377	max. - 10 max. - 8 max. ± 2	%	storage in heated cupboard at 140 °C / 10 minutes (≤ 200 mic) (> 200 mic)
max. Temperature load without remaining shrinkage		+ 55	°C	drop hammer method
Cold break temperature		- 15	°C	drop hammer method
Surface tension		≥ 34	mN/m	measured with test inks
Surface reflexion		10 - 30	GE	measure angle 85°
Surface roughness ~ RZ	DIN 4768	7 - 12	mic	both sides, measured with Perthometer M4P Lt 2,5 = measuring length 15 mm

All details in this data sheet are based on our present technical knowledge.
They neither guarantee certain characteristics of products nor their suitability for a particular application.