

# Technical Data Sheet

**Product name:** Pentaprint® PR M180/23-71/9400-100\_0  
PR-M180/23-71/9400-100\_0

**Description:** high impact strength  
suitable for screen printing and UV offset  
**Quality segment:** PR - PRINT APPLICATION  
**Type:** M180/23 - PVC Polyvinylchloride  
**Colour:** 71/9400 - Grey glassclear  
**Surface:** 100\_0 - glossy/glossy

Properties	Standard	Unit	Values
Thickness	DIN 53370 / ISO 4593	µm	80 ... 800
Tolerance of Thickness	DIN 53370 / ISO 4593	%	-10 ... 10      200 µm -7 ... 7      201 ... 400 µm -5 ... 5      401 ... 800 µm
Density	DIN EN ISO 1183-2	g/cm <sup>3</sup>	1,31 ... 1,35
Tensile strength, min.	DIN EN ISO 527 test speed V 50 mm/min, measured lengthwise (depends on thickness)	MPa	45
Impact strength, min.	DIN EN ISO 8256 measured lengthwise	kJ/m <sup>2</sup>	550
VICAT-softening point	DIN EN ISO 306 measured in oil, method A/50	°C	72 ... 76
Dimensional stability -longitudinal	DIN 53377 storage in heated cupboard, at 140 °C/10 min	%	-10,0 ... 0,0      0 ... 100 µm -7,0 ... 0,0      101 ... 200 µm -5,0 ... 0,0      201 ... 400 µm -4,0 ... 0,0      401 ... 800 µm
Dimensional stability -transverse	DIN 53377 storage in heated cupboard, at 140 °C/10 min	%	-2,0 ... 2,0      80 ... 800 µm
Max. processing temperature	no remaining change of size	°C	55
Cold Break Temperature	DIN EN 1876-2 drop-hammer method	°C	-20
Surface tension, min.	DIN ISO 8296 measured with test inks	mN/m	34
Surface reflexion, 20°	DIN 67530 measuring angle 20°		100 ... 130

**Regulatory:** The product corresponds to:  
- respective regulations and directives for food contact  
- Packaging requirements for heavy metals  
- Supplementary confirmations to the above-named points can be issued on request.

**Storage conditions:** - Ideal storage conditions between 10 - 30°C (50 - 86°F)  
- Ideal RH 40 - 70%  
- Should not be stored in direct sunlight and avoid major thermal

The statements contained herein are for informational purposes only and are true and accurate to the best of our scientific and technical knowledge. This information does not constitute a guarantee or warranty, express or implied, nor does it establish a legally valid contractual relationship. This information does not release the buyer from the obligation to examine the respective products by himself in respect of their suitability, including the suitability for the intended further processing.

Revision: 4/18.08.2010

fluctuation

- Store in original packaging
- Before working up the films should be conditioned a minimum of 24 hours room temperature (15 - 30°C)
- recommended use of the material within one year of production date

The statements contained herein are for informational purposes only and are true and accurate to the best of our scientific and technical knowledge. This information does not constitute a guarantee or warranty, express or implied, nor does it establish a legally valid contractual relationship. This information does not release the buyer from the obligation to examine the respective products by himself in respect of their suitability, including the suitability for the intended further processing.

Revision: 4/18.08.2010