

# Technical Data Sheet

**Product name:** Pentaprint® PVC PR-M280/90-51/8800-674\_2-ZZZ

**Description:** high impact strength  
suitable for screen printing, UV offset and inkjet-UV  
scratch proved embossed surface on one side  
suitable for mouse pads

**Quality segment:** Print film  
**Type:** PVC  
**Color:** 1-Blue, crystal clear-000  
**Surface:** Embossed/Glossy-00  
**Additional treatment:** No additional treatment-00

Properties	Standard	Unit	Standard values
Thickness base film	DIN 53370 / ISO 4593	µm	150 ... 800
Tolerance of Thickness	DIN 53370 / ISO 4593	%	-10,0 ... 10,0 150 ... 200 µm -7,0 ... 7,0 201 ... 400 µm -5,0 ... 5,0 401 ... 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, depending on thickness	MPa	45
Impact strength, min.	DIN EN ISO 8256 measured lengthwise	kJ/m <sup>2</sup>	500
VICAT-softening point	DIN EN ISO 306 method B/50	°C	72 ... 76
Dimensional stability -longitudinal	DIN 53377 storage in oven at 140°C/10min	%	-10,0 ... 0,0 150 ... 200 µm -7,0 ... 0,0 201 ... 400 µm -5,0 ... 0,0 401 ... 800 µm
Dimensional stability -transverse	DIN 53377 storage in oven at 140°C/10min	%	-2 ... 2 150 ... 800 µm
Max. temperature load	without remaining change of sizes	°C	55
Surface tension, min.	DIN ISO 8296 measured with test inks	mN/m	32 ... 36
Surface reflexion, 85°	DIN 67530; ASTM D-523 measuring angle 85° embossed side, upper surface	GE	20 ... 30
Surface reflexion, 20°	DIN 67530; ASTM D-523	GE	60 ... 100

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<b>Properties</b>	<b>Standard</b>	<b>Unit</b>	<b>Standard values</b>
	measuring angle 20° glossy side, back surface		
Surface roughness - Rz	DIN 4768 measured with MahrSurf M300, Lt 2,5	µm	6 ... 12
Tenability of outdoor use	measured in sun-tester	Jahr	0,3

## **Regulatory:**

The product corresponds to:

- 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 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

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