Technical Data Sheet

klöckner pentaplast

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Product name: *PVC RIGID PENTAPRINT CLEAR*

Description: old Nomenclature: Pentaprint® PR M180/23-71/9400-100_0
high impact strength
suitable for screen printing and UV offset

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

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/cm³	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/m²	550	
VICAT-softening point	DIN EN ISO 306 measured in oil, method B/50	ºC	72 ... 76	
Dimensional stability -longitudinal	DIN 53377 storage in heated cupboard at 140°C/10min	%	-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/10min	%	-2,0 ... 2,0	80 ... 800 µm
Max. processing temperature	no remaining change of size	ºC	55	
Cold Break Temperature	DIN EN 1876-2 drop-hammer method	ºC	-30	
Surface tension, min.	DIN ISO 8296	mN/m	34	
Surface reflexion, 20°	DIN 67530	GE	130 ... 140	

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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℃ (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℃)
- recommended use of the material within one year of production date