



DWR plastics POLYURETHANE CASTING RESIN Slow Cure

MAIN FEATURES

- Low-viscosity
- Easy to process
- Low shrinkage
- Good through-curing
- Reproduction of fine details
- High strength
- Can be pigmented
- Paintable

APPLICATIONS

- Production of negatives/positives
- Production of craft items

PROPERTIES IN THE NON-CROSSLINKED STATE (approx. values)

Physical Property	Unit	Part A	Part B	Mixture
Colour		Beige	Yellowish	
Mixing ratio	p.b.w.	100	100	-
Density @ 20 °C	g/cm ³	1	1.14	1.1
Viscosity @ Room Temperature	mPas	100	25	60
Pot life min @ 20 °C	Minutes			12-14
De-mould @ 25 °C	Hours	1 – 2 (Time required varies depending on the quantity of material and the thickness of the casting.)		

MECHANICAL AND OTHER SPECIFICATIONS (approx. values)

Physical Property	Unit		Mixture
Hardness	Shore D	DIN 53505	70-74
Colour			Ivory White
Tensile strength	MPa	DIN 53455	30
Flexural strength	MPa	DIN 53452	50
Bending elongation	%	DIN 53452	7
Modulus in flexure	MPa	DIN 53457	1150-1450
Impact strength	KJ/m ²	DIN 51230	20
Heat Resistance (HDT)	°C	DIN EN ISO 75 B	75
Linear shrinkage	%	500 x 50 x 25 mm	0.05



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HOW TO PROCESS THE MATERIAL

Before use, shake Part A & Part B thoroughly until the compound has got a homogeneous appearance. Mix both components with each other at room temperature (> 18°C) according to the indicated mixing ratio. Before casting make sure that parts and moulds are free from humidity and non-vaporized release agents.

STORAGE

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels.

MEASURE OF PRECAUTION

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological, and other data relating to safety, to inform themselves on the safe handling and storage of products.

TERMS & CONDITIONS

Our technical service – in words, in writing or by trials – is given according to the current state of our knowledge. It does however not relieve you from the duty to check by yourselves if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products, you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.



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