

## CUBES BLOCK GROUTING WITH SikaBiresin® PRODUCTS



### Model casting resin cast close to contour or in blocks with different densities CPU-LD 0600 to 1100

Tried and tested **SikaBiresin® PU** is cast in the globally unique and patented production process of CUBES GmbH for the manufacture of shape-matched raw blocks and guarantees the highest component quality possible.

- density 0.60 - 1.10 g/cm<sup>3</sup>
- component sizes (3 x 2 x 1.5m) from 100 ltr. to max. 2,000 ltr. can be realised
- excellent price-performance ratio
- simple, low-dust processing
- high surface quality
- low thermal expansion
- good compressive and edge strengths
- additional matching **SikaBiresin®** repair solutions such as adhesives and fillers

IN COOPERATION  
WITH



### APPLICATION AREAS

- Variable blank density from 0.60 to 1.10 g/cm<sup>3</sup>
- Near-net-shape blanks with low wall thickness for design, styling and cubing models and for light moulds
- Blocks of different dimensions

### PRODUCT ADVANTAGES

- Low density microcellular moulding material
- Dense surface and good machinability
- Finished surfaces can be coated with primers and model lacquers.
- Subsequent changes are very easy to implement with additional **SikaBiresin®** block materials

### DESCRIPTION

- Base polyurethane, light brown

### Mechanical properties (approx. Values)

			CPU-LD 0600	CPU-LD 0850	CPU-LD 1100
Density	ISO 845	g/cm <sup>3</sup>	0,60	0,85	1,10
Shore hardness	ISO 868	-	D 53	D 67	D 76
Modulus of elasticity	ISO 178	MPa	700	1.300	2.100
Flexural strength	ISO 178	MPa	15	30	50
Compressive strength	ISO 604	MPa	16*	29*	47*
Heat resistance	ISO75B	°C	57	58	65
WAK <sub>αT</sub>	DIN 53 752	K <sup>-1</sup>	78 x 10 <sup>-6</sup>	78 x 10 <sup>-6</sup>	78 x 10 <sup>-6</sup>

\* at 10% compression

## FACTS & ADVANTAGES



#### Gogreen

sustainable process with minimal waste. No auxiliaries such as polystyrene moulding



#### Tempering

almost tension-free through subsequent heat treatment



#### High quality

From one piece - no plate gluing, high optical and mechanical quality



#### Material savings

up to 40% (to conventional methods)



#### Fast delivery

approx. 5 days delivery time (within DE and AT)

## QUALITY

Quality assurance is central for us and also for you as a customer. That is why we check the chemical, mechanical and thermal properties of each individual component. We will send you the detailed test report with the moulded part you have ordered.



**Chemical** properties and thermal stability. With the help of DSC measurements (Differential Scanning Calorimetry), we carefully examine every component.



We use a DMA (dynamic mechanical analysis) for **mechanical quality assurance**. By measuring the storage modulus  $G'$ , we can conclude that the mechanical product parameters are being adhered to.



**Contour inspection (3D)**. With a 3D hand scanner, we create an image of each molded part as a point cloud. With this comparison you will not only see the maximum deviation of our cast from the calculated model, you can even see where any deviations can be expected.

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