

General product information

Solvent free elastic two component polyurethane *casting resin* with good low temperature properties and low pouring viscosity. **SL CAST 90** is designed as a casting for embedding of Fiber Optic Traffic Sensors or for other sensor applications.

Typical properties at 20 °C

| | Polyol SL CAST 90-POL | Polyisocyanate SL CAST 90-ISO | Mixture |
|---|--|--|----------------|
| Density [g/cm³] DIN 53217/2 | 1.20 | 1.20 | 1.20 |
| Viscosity [mPa·s] DIN 53018/1+2 | 3500 | 300 | 1400 |
| Mixing ratio by weight | 100 | 33 | - |

Colour: black

Potlife: from 2 till 13 minutes possible

Curing profile

Curing time depends on the potlife, material temperature and ambient temperatures. The ambient temperature should not fall below +5°C during curing.

Typical values of cured casting

| | | |
|----------------------------|------------------------|-----------|
| Shore hardness | 35 D / A 92 | DIN 53505 |
| Tensile strength | 11.0 N/mm ² | DIN 53455 |
| Elongation at break | 250 % | DIN 53455 |
| Tear resistance | 20 N/mm | DIN 53356 |

Processing Conditions

The resin component should be stirred well before using. The processing is done by preference with a two component metering and mixing machine. These machines enable a working with short potlives. The parts to be glued should be clean, dry and free from grease.

Precaution

Material safety data sheets SL CAST 90-ISO and SL CAST 90-POL should be read very carefully before use.

Packaging

3 Kg units. Others size on request.

Storage life

Both components must be protected against humidity. Do not store at temperature below + 5 °C. 15 - 20 °C is the most favourable storage temperature. Original closed units can be stored for at least 6 months at ambient temperature. After a long storage period, the resin component should be stirred well before using.

Notice

The information herein is based on our present experience and is believed to be correct. Notice of legal requirements and existing patent rights has to be taken.

Important notes:

Our advice in connection to technical applications either verbal, written or by means of experiments are given in good faith and to the best of our knowledge as an indication without obligation also in respect of third party protection. This does not dismiss the users obligation to check that the supplied product is suitable for the desired purpose and that the necessary precautionary measures have been taken. Application, use and processing of our products take place outside our control possibilities. They are therefore the responsibility of the end user. We kindly refer you to our standard sales conditions. As our data sheets are regularly updated, please check your files to confirm you have the current edition. It is sometimes useful to perform application tests or to develop special variations for certain projects.
For more specific information please contact our Technical Department.

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