

## Product Data Sheet

### ISO-PUR K 793 VP

#### Description:

ISO-PUR K 792 VP is a cold-curing 2-component polyurethane casting resin based on polyether polyols and cycloaliphatic diisocyanates. The potting compound is characterized by a low potting viscosity. ISO-PUR K 792 VP has good adhesion to metals and plastics out. The hydrolysis resistance is excellent. The low temperature properties of the mass are also good. Main application is a gentle transparent casting of electronic and optical components.

#### Technical Data:

|          |                                  | V1                     | V2             | V3             |
|----------|----------------------------------|------------------------|----------------|----------------|
| resin    | viscosity / 20°C                 | app. 800 mPa s         | app. 700 mPa s | app. 600 mPa s |
|          | colour                           | colourless*            |                |                |
|          | density / 20°C                   | 1.0 g/cm <sup>3</sup>  |                |                |
| hardener | viscosity / 20°C                 | app. 1100 mPa s        |                |                |
|          | colour                           | colourless             |                |                |
|          | density / 20°C                   | 1.15 g/cm <sup>3</sup> |                |                |
| mixture  | mixing ratio<br>resin : hardener | 1 : 1.43 pbw           | 1 : 1.37 pbw   | 1 : 1.34 pbw   |
|          | viscosity / 20°C                 | app. 900 mPa s         | app. 800 mPa s | app. 750 mPa s |
|          | colour                           | colourless*            |                |                |
|          | density / 20°C                   | 1.05 g/cm <sup>3</sup> |                |                |
|          | potlife / 20°C                   | app. 30 min*           |                |                |

\* or on request

## Continuation Technical Data ISO-PUR K 793 VP

### Properties of cured product (typical values):

|  | V1                               | V2              | V3              |
|--|----------------------------------|-----------------|-----------------|
| mixing ratio resin : hardener  | 1 : 1.43 pbw                     | 1 : 1.37 pbw    | 1 : 1.34 pbw    |
| hardness   | app. 50 Shore D                  | app. 40 Shore D | app. 30 Shore D |
| temperature resistance   | long-time: min. 100°C            |                 |                 |
| dielectric strength  | > 22 kV/mm                       |                 |                 |
| dissipation factor $\tan \delta$ / 25°C / 50Hz   | 0.006                            |                 |                 |
| dielectric constant $\epsilon$ / 25°C / 50Hz   | 2.8                              |                 |                 |
| thermal conductivity   | 0.2 W/K m                        |                 |                 |
| thermal volume expansion coefficient   | $3 \cdot 10^{-4} \text{ K}^{-1}$ |                 |                 |
| tracing resistance   | KA 3c                            |                 |                 |
| chemical resistance against mineral oil, 2n H <sub>2</sub> SO <sub>4</sub> , CaCO <sub>3</sub> -solution | no visible degradation           |                 |                 |

#### Storage:

Store dry and well closed.

#### Processing:

Stir up resin component well. Then mix resin and hardener carefully in recommended ratio for 1 - 2 minutes until a homogeneous thixotropic mixture is formed. Process the material immediately after mixing.

Please see material safety data sheet for additional information.