

## Product Data Sheet

### ISO-PUR K 762

#### Description:

ISO-PUR K 762 is a minerally filled cold-curing 2-component polyurethane cast resin based on polyether- and -esterpolyols and precured aromatic diisocyanates. The technical data of ISO-PUR K 762 are similar to those of ISO-PUR K 760, which is a standard material for casting electronic parts but with lower viscosity.

Cured samples of ISO-PUR K 762 do not become brittle. The system has a good thermal conductivity and minimum shrinkage while curing. ISO-PUR K 762 protects against corrosion and shows good adhesion to metal, ceramics and many plastics.

#### Technical Data:

|          |                                                                                                                                                                   |                                                                                                                     |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| resin    | viscosity /<br>20°C colour<br>density / 20°C                                                                                                                      | app. 2100 mPa s<br>pale brown* 1.3<br>g/cm <sup>3</sup>                                                             |
| hardener | viscosity /<br>20°C colour<br>density / 20°C                                                                                                                      | app. 120 mPa s<br>brown<br>1.2 g/cm <sup>3</sup>                                                                    |
| mixture  | mixing ratio resin<br>: hardener<br>viscosity / 20°C<br>colour density /<br>20°C potlife /<br>20°C geltime /<br>20°C max.<br>temperature<br>(200g, start at 20°C) | 3 : 1 pbw* app.<br>1300 mPa s pale<br>brown* 1.2 g/cm <sup>3</sup><br>app. 14 min *<br>app. 19 min *<br>app. 50°C * |

\*

or on request

## Continuation Technical Data ISO-PUR K 762

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

|                                                                                                             |                                        |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------|
| mixing ratio resin : hardener                                                                               | 3 : 1 pbw                              |
| hardness                                                                                                    | 96 Shore A /<br>60-65 Shore D          |
| temperature resistance                                                                                      | long-time: 140°C short-<br>time: 200°C |
| tensile strength                                                                                            | 22 N/mm <sup>2</sup>                   |
| elongation at break                                                                                         | 70 %                                   |
| dielectric strength                                                                                         | 20 kV/mm                               |
| dielectric strength while still liquid                                                                      | 7 kV/mm                                |
| dissipation factor tan $\delta$ /<br>25°C / 50Hz                                                            | 0.02                                   |
| dielectric constant $\epsilon$ / 25°C / 50Hz                                                                | 4.2                                    |
| thermal conductivity                                                                                        | 0.45 W/K m                             |
| thermal expansion coefficient                                                                               | 50 * 10 <sup>-6</sup> K <sup>-1</sup>  |
| tracing resistance                                                                                          | KA 3 c                                 |
| water absorption after 30 days / 23°C                                                                       | 0.2 %                                  |
| chemical resistance against mineral<br>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 compound well. Then mix resin and hardener carefully in recommended ratio for 1 - 3 minutes (depending on size of mixture and potlife). The mixture has to be poured into the mould immediately after mixing. Air bubbles that have been stirred in can be removed before end of potlife by evacuating or by using hot air.

Please see material safety data sheet for additional information.