Addolink® 1604

Function

Addolink 1604, an aromatic diamine, is used as a crosslinking agent in combination with prepolymers for the manufacture of high-quality heat curing PUR elastomers, giving considerably longer casting times than other amine crosslinking agents.

Product description

Appearance: yellow to brown granules

Average equivalent weight (on amine) RC-method C 065 F: 117 - 124

Water content (KF): < 0.15 %

Melting point (DSC): 86 - 94 °C

Density:
- 90 °C approx. 1.148 g/cm³
- 100 °C approx. 1.140 g/cm³
- 110 °C approx. 1.132 g/cm³

Viscosity:
- 90 °C approx. 27 mPas
- 100 °C approx. 19 mPas
- 110 °C approx. 12 mPas

Physiological properties: As an aromatic diamine, this product must be handled with extreme care. For further details, see Safety Data Sheet.

Use

Processing:
Addolink 1604 is processed in combination with prepolymers at temperatures of between 90 and 100 °C. The advantage of using the crosslinking agent is that it enables considerably longer reaction times to be achieved so that large-volume articles can be manufactured. Manual processing is also possible. The casting time is about 5 minutes if Desmodur TS 50 and/or Desmodur TEC 41 are used and about 7 minutes if Desmodur TS 35 is used. Addolink 1604 must be melted before processing. The recommended processing temperature is approx. 100 °C. Temperatures above 120 °C should be avoided, as inferior elastomers will result. The melting apparatus must be designed in such a way that temperatures of 150 °C are impossible. At temperatures above 170 °C, Addolink 1604 begins to decompose, generating gaseous products which can cause high pressure to build up in closed systems. Addolink 1604 can be stored in a liquid state at 110 °C for 10 hours. The darkening of the liquid in contact with air can be prevented by storage under nitrogen. This darker colour has no noticeable effect on the material properties of the finished elastomers.

Packing
Pasteboard drums with an inner polyethylene sack, 30 kg net.

Storage stability
At temperatures below approx. 30 °C (protect from moisture!) original containers have a shelf life of 12 months. Once opened, containers should always be resealed carefully.

Handling
Consult material safety data sheet (MSDS) for additional handling information on Addolink 1604.
Our technical advice - whether verbal, in writing or by way of trials - is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended processes and uses. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this, liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery.