

Syntheflex 7023

Isocyanate 5669

DESCRIPTION

Syntheflex 7023 is a two component polyurethane system, HFC free, formulated to produce cold cure moulded viscoelastic flexible foams

COMPONENTS

COMPONENT A: Polyol 7023
Polyol mixture, containing catalysts and stabilizing agents

COMPONENT B: Isocyanate 5669
Modified MDI (diphenylmethane diisocyanate)

USES

This system is recommended for the production of cold cure moulded foam pieces of 80 g/l density. Especially suitable for applications in the furniture and rest industry where a final product with low resilience are required.

CONDITIONS OF USES

This system can be processed with high pressure machines (100-150 bar) as well as with low pressure ones.

The recommended in-hose components temperature is 22 ± 2 °C and for the mould 60°C.

Before loading the component A (polyol) must be homogenized with a suitable agitator during 5-10 minutes.

The machine output should be calculated according to the weight of the finished piece and the reaction times of the foam; the injection of the product in the mould should be carried out in a period lower than the cream time.

In order to produce a finished piece of good quality, it is important to take into account the following factors: mould design, thickness and shape of the insert, gas outlets and mould inclination.

Demoulding times would be between 8 and 10 minutes, depending on the thickness and shape of the piece.

COMPONENTS CHARACTERISTICS

| Characteristics | Units | 7023 | 5669 |
|----------------------|-------------------|------|------|
| Specific weight 25°C | g/cm ³ | 1.05 | 1.20 |
| Viscosity 25° C | mPa.s | 1000 | 250 |
| Ignition temp.. | °C | >170 | >190 |
| NCO content | % | - | 25 |

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SYSTEM SPECIFICATIONS

Measurement carried out in a test recipient at 22°C and at the mix ratio indicated within the company's standard method (MAN - S03).

Mix Ratio A / B : 100 / 37 ± 2 in weight.

| Characteristics | Units | 7023 |
|-----------------|-------|--------|
| Cream time | s | 9 |
| Gel time | s | 70 ± 5 |
| Free density | g / l | 80 ± 2 |

STORAGE RECOMEMNDATIONS

Components A and B are sensitive to moisture, and should be stored in sealed drums or tanks. Storage temperature must be kept between +15 and +25 °C.

Avoid lower temperatures that may build up crystallizations in the isocyanate, as well as higher temperatures that may alter the polyol.

The shelf life is 4 months when stored at 20°C for the Component A (polyol) and 6 months for the Component B (isocyanate).

SAFETY RECOMMENDATIONS

With appropriate handling, the system does not present significant risks. Avoid contact with eyes and skin. The instruction given in the Safety Data Sheet must be followed during the manufacturing and handling of the system.

SUPPLY

Normally, the product is supplied in non-returnable steel drums of 230 litres (blue for the Component A and black for the Component B).