

Product description

Technogel® represents a dimensionally stable polyurethane gel which is characterized by the following profile:

- plasticizer-free
- dimensionally stable
- good absorption of shear forces
- good pressure distribution
- high shock absorption
- high elasticity
- elongation at break: from 200 to 1.000% depending on the formulation
- non-irritating to the skin (Fresenius Institute, Öko-Tex 100)
- individually adjustable hardness
- very good gluing ability
- breathable
- light-fast (for the aliphatic formulation)
- available in any color, depending on the formulation
- available in different formulations with the latest light, soft-light, thermo and thermo-light formulations
- it can be produced in combination with PUR foam

1. Identification of the Company

Technogel Italia Srl
Via Marconi, 29
I-35010 S. Pietro in Gu (PD)
Telefono: ++39 049 9455110

2. Composition

Crosslinked polyurethane gel

3. Stability and Reactivity

Thermal stability: stability with no modification of mechanical properties when conditioned in ventilated oven at 80 °C for seven days. Initial decomposition above 120°C resulting in a liquid.

Hazardous decomposition products: no hazardous decomposition products when used correctly.

Hazardous reaction: no hazardous reaction observed

4. Physical and chemical properties

Form: solid

Color: base color amber (not light-fast)

Odour: odourless

Density (DIN 53 420): 1,06 g/cm³

Flash point: > 250°C

Ignition Temperature: 390°C

5. Hardness

Gel Softness Index: according to our measurement system, the gel softness index is determined directly on the gel. Any covering material removed, a cylindrical block of gel (h = 7-8 cm, diameter = 9-10 cm) is loaded after 15 minutes with the end of a piston (weight = 300 g). The first index is then determined as the indentation depth of the piston (reading taken after 50 seconds). The weight is then increased of 500 grams and the second index is determined as the indentation depth of the piston (reading taken after 50 seconds).

Results are expressed in millimeters and compared with standard values.

This test is performed each 2 hours during production.

6. Toxicological information

No risk observed.

These information are based on the current status of experience and knowledge.

Dated: December 2001