

Product datasheet Silensor-sl parts



1. Manufacturer information

Trade name:	Silensor-sl parts
Intended use:	Fabrication of anti-snoring device
Manufacturer:	Erkodent Erich Kopp GmbH Siemensstraße 3 72285 Pfalzgrafenweiler Germany Tel.: +49 7445 8501-0

2. Intended use

Silensor-sl parts are components for the fabrication of Silensor-sl anti-snoring device.

3. Composition

CAS-No.:	163800-67-7
Designation:	Polyamid (PA)

4. Properties (all data are approximate values)

General properties:

Properties	Guideline	Value
Form	-	solid
Colour	-	turquoise
Odour	-	inodorous
Density	ISO 1183	1,0 g/cm ³
Water absorption, 24 h/ 23 °C	ISO 62	3 %
Water solubility	-	insoluble

Mechanical properties:

Properties	Guideline	Value
Tensile strength	ISO 527	45 MPa
Flexional strength	ISO 178	-
Impact strength, 23 °C	ISO 179/1eU	no break
Notch impact, 23 °C	ISO 179/1eA	13 kJ/m ²
Yield stress	ISO 527	60 MPa
Elongation at break	ISO 527	>50 %
E-modulus	ISO 527	1600 MPa
Hardness shore A/ shore D	ISO 868	81 Shore D
Ball indentation hardness	ISO 2039/1	90 MPa

Thermal properties:

Properties	Guideline	Value
Vicat softening point	ISO 11357	-

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Temperature resistance, 1.80 MPa	ISO 75	115 °C
Glass transition temperature	ISO 11357	155 °C
Shrinkage after thermoforming	-	-

Biological properties:

The material has been tested for biocompatibility according to DIN EN ISO 10993-1 and does not affect the patient's biological safety.

5. General information

Storage instructions:

Keep away from sunlight. Keep dry.

Recommended storage temperature: -5 °C – 45 °C

Instructions for cleaning and maintenance:

Best results are achieved with Oxydens cleansing tablets.

Further cleaning agents: Soap, curd soap, liquid soap and dish liquid. Do not use any strongly perfumed soaps.

Not suited are: tooth-paste, mouth-wash and water that is hotter than 50 °C.

Solvent-based cleaning agents cause delamination of multi-layered splints.

Sterilisation:

A sterilization with gas and plasma (<50 °C) is possible. As a result of the thermolability the materials are not autoclavable.

To the best of our knowledge, the information in this product data sheet is correct at the time of printing. The information is not a guaranteed assurance of product properties and does not establish any contractual legal understanding. All processing instructions are approximate values and do not release the user from the obligation to determine the suitability for the respective application.

Errors and omissions excepted.