



ABN 92 406 109 452

Smileflex™ 2inONE Night Retainer™

Product and Safety Data Sheet

1. MANUFACTURING INFORMATION

Product name: 2inONE Night Retainer™
Product intended use: To retain the position of the teeth after orthodontic treatment and for the temporary treatment of teeth bruxism.
Manufacturer: Smileflex
ABN 92 406 109 452
smileflex.com.au
Country of manufacture: Australia

2. MATERIAL INTENDED USE

The material is thermoformed to fabricate intra-oral appliances such as:

Application	Thickness recommendation
Retainers	1.0mm

The thickness recommendation is a non-binding suggestion based on market observation.

3. COMPOSITION

25640-14-6
CAS No.: Polyethylene terephthalate
Designation: (PETG)

4. MATERIAL PROPERTIES

General properties:

Properties	Guideline	Value
Form	-	very tough, hard
Colour	-	clear, turquoise
Odour	-	inodorous
Density	ISO 1183	1.27g/cm ³
Water absorption	ISO 62/1	0.2%
Water solubility	-	insoluble

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4. MATERIAL PROPERTIES (cont.)

Mechanical properties:

Properties	Guideline	Value
Tensile strength	ISO 527	53MPa
Flectional strength	ISO 178	69MPa
Impact strength, 23 °C	ISO 179	no break
Notch impact, 23 °C	ISO 179	10kJ/m ²
Yield stress	ISO 527	53MPa
Elongation at break	ISO 527	40%
E-modulus	ISO 527	2200MPa
Hardness shore A/ shore D	D 868	-
Rockwell hardness	D 785	115MPa

Thermal properties:

Properties	Guideline	Value
Vicat softening point	D 1525	83°C
Temperature resistance, 1.8 MPa	ISO 75	68°C
Glass transition temperature	ISO 11357	-

Biological properties:

The material has been tested for biocompatibility according to DIN EN ISO 10993-1 and does not affect the user's biological safety. The material is non-toxic and not made with Latex, does not contain DEHP (or other Phthalates), or Bisphenol A (BPA), and is monomer and gluten free.

5. GENERAL INFORMATION

Storage instructions: Use provided protective case. Keep away from sunlight. Keep dry.

Recommended storage temperature: 5°C–35°C

Instructions for cleaning and maintenance: Best results are achieved with cleansing tablets.

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

Not suitable cleaning agents: Toothpaste, mouthwash and water that is hotter than 50°C.

Sterilisation: A sterilisation with gas and plasma (<50°C) is possible. As a result of the thermolability, the product is not autoclavable.

The information on this data sheet corresponds to the best of our knowledge at the time of publishing. The information is not guaranteed assurance of product properties and does not constitute a contractual legal understanding. Input errors and mistakes reserved. Modification date: 2023-10-08