

## Product datasheet Usig-Foil



### 1. Manufacturer information

Trade name:	Usig-Foil
Intended use:	Fabrication of friction sleeves
Manufacturer:	Erkodent Erich Kopp GmbH Siemensstraße 3 72285 Pfalzgrafenweiler Germany Tel.: +49 7445 8501-0

### 2. Intended use

Usig-Foil is thermoformed for the fabrication of friction sleeves.

Application	Thickness recommendation
Friction sleeves	0.5 mm

### 3. Composition

CAS-No.:	25640-14-6
Designation:	Polyethylenterephthalat (PET-G)

### 4. Properties

#### General properties:

Properties	Guideline	Value
Form	-	abrasion-resistant
Colour	-	tooth coloured opaque
Odour	-	inodorous
Density	ISO 1183	1.27 g/cm <sup>3</sup>
Water absorption, 24 h/ 23 °C	ISO 62	0.2 %
Water solubility	-	insoluble

#### Mechanical properties:

Properties	Guideline	Value
Tensile strength	ISO 527	53 MPa
Flectional strength	ISO 178	69 MPa
Impact strength, 23 °C	ISO 179/1eU	no break
Notch impact, 23 °C	ISO 179/1eA	10 kJ/m <sup>2</sup>
Yield stress	ISO 527	53 MPa
Elongation at break	ISO 527	40 %
E-modulus	ISO 527	2200 MPa
Hardness shore A/ shore D	ISO 868	-
Ball indentation hardness	ISO 2039	115

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### Thermal properties:

Properties	Guideline	Value
Vicat softening point	ISO 11357	83 °C
Temperature resistance	ISO 75	68 °C
Glass transition temperature	ISO 11357	-
Shrinkage after thermoforming	-	0.5 %

### 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 – 35 °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.

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