

Product datasheet Erkoflex



1. Manufacturer information

Trade name:	Erkoflex/-color
Intended use:	Fabrication of flexible stiffeners in orthopedic technology and shoe technology
Manufacturer:	Erkodent Erich Kopp GmbH Siemensstraße 3 72285 Pfalzgrafenweiler Germany Tel.: +49 7445 8501-0

2. Intended use

For the fabrication of front-, peroneal- and ankle-caps, trial shoes, flexible diagnostic-, definitive-, test sockets and hand positioning splints.

3. Composition

CAS-No.:	24937-78-8
Designation:	Ethylenvinylacetat (EVA)

4. Properties

General properties:

Properties	Guideline	Value
Form	-	rubbery, soft
Colour	-	transparent, coloured
Odour	-	inodorous
Density	ISO 1183	0.95 g/cm ³
Water absorption, 24h/23°C	ISO 62/1	0.2 %
Water solubility	-	insoluble

Mechanical properties:

Properties	Guideline	Value
Tensile strength	ISO 527	24 MPa
Flectional strength	ISO 178	-
Impact strength, 23°C	ISO 179/1eU	no break
Notch impact, 23°C	ISO 179/1eA	no break
Yield stress	ISO 527	15 MPa
Elongation at break	ISO 527	850 %
E-modulus	ISO 527	20 MPa
Hardness shore A/ shore D	ISO 868	82 Shore A
Ball indentation hardness	ISO 2039/1	-

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Thermal properties:

Properties	Guideline	Value
Vicat softening point	ISO 11357/3	40 °C
Temperature resistance	ISO 75/A	54 °C
Glass transition temperature	ISO 11357/3	72 °C
Shrinkage after thermoforming	-	<2 %

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

Recommended working temperature: 100°C – 130°C

Instructions for cleaning and maintenance:

Cleaning with acetone or degreaser.

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