

Product datasheet Erkolen



1. Manufacturer information

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

2. Intended use

Base of elegant insoles.

3. Composition

CAS-No.:	9002-88-4
Designation:	Polyethylen (PE)

4. Properties

General properties:

Properties	Guideline	Value
Form	-	soft resilient
Colour	-	transparent
Odour	-	inodorous
Density	ISO 1183	0.92 g/cm ³
Water absorption, 24h/23°C	ISO 62/1	0.1 %
Water solubility	-	insoluble

Mechanical properties:

Properties	Guideline	Value
Tensile strength	ISO 527	25 MPa
Flectional strength	ISO 178	-
Impact strength, 23°C	ISO 179/1eU	100 kJ/m ²
Notch impact, 23°C	ISO 179/1eA	44 kJ/m ²
Yield stress	ISO 527	9 MPa
Elongation at break	ISO 527	650 %
E-modulus	ISO 527	200 MPa
Hardness shore A/ shore D	ISO 868	40 Shore D
Ball indentation hardness	ISO 2039/1	18 MPa

Thermal properties:

Properties	Guideline	Value
Vicat softening point	ISO 11357/3	94 °C

Product datasheet Erkolen



Temperature resistance	ISO 75/A	68 °C
Glass transition temperature	ISO 11357/3	11 °C
Shrinkage after thermoforming	-	0.1 %

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: 15°C – 25°C

Instructions for cleaning and maintenance:

Cleaning with acetone or degreaser.

The information on this product data sheet corresponds to the best of our knowledge at the time of printing. The information is not guaranteed assurance of product properties and does not constitute a contractual legal understanding. Input errors and mistakes reserved.