

Product datasheet Playsafe triple/ triple-light



1. Manufacturer information

Trade name:	Playsafe triple/ triple-light
Intended use:	Fabrication of sports mouthguards
Manufacturer:	Erkodent Erich Kopp GmbH Siemensstraße 3 72285 Pfalzgrafenweiler Germany Tel.: +49 7445 8501-0

2. Intended use

Playsafe triple/ triple-light is thermoformed to fabricate sports mouthguards.

Application	Thickness recommendation
Playsafe triple, sports mouthguards	5.5 mm
Playsafe triple-light, sports mouthguards	4.1 mm

3. Composition

CAS-No.:	24937-78-8	25640-14-6
Designation:	Ethylenvinylacetat (EVA)	Cyclo-Olefin-Copolymere (COC)

4. Properties

General properties:

Properties	Guideline	Value – EVA	Value – COC
Form	-	soft	hard
Colour	-	clear, coloured	clear
Odour	-	inodorous	inodorous
Density	ISO 1183	0.94 g/cm ³	1.01 g/cm ³
Water absorption, 24 h/ 23 °C	ISO 62	-	0.01 %
Water solubility	-	insoluble	insoluble

Mechanical properties:

Properties	Guideline	Value – EVA	Value – COC
Tensile strength	ISO 527	24 MPa	57 MPa
Flectional strength	ISO 178	-	-
Impact strength, 23 °C	ISO 179/1eU	-	-
Notch impact, 23 °C	ISO 179/1eA	-	-
Yield stress	ISO 527	-	-
Elongation at break	ISO 527	1000 %	2.9 %
E-modulus	ISO 527	-	2200 MPa

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Hardness shore A/ shore D	ISO 868	80 Shore A	-
Ball indentation hardness	ISO 2039/1	-	-

Thermal properties:

Properties	Guideline	Value – EVA	Value – COC
Vicat softening point	ISO 306	40 °C	-
Temperature resistance	ISO 75	-	-
Glass transition temperature	ISO 527	-	78 °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 – 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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