

Product datasheet BIOPLAST®

1 Identification of the substance / preparation / company

Product details

Trade name: BIOPLAST®

Application of the substance / preparation: Manufacture of dental pressure moulding splints.

Manufacturer / Supplier: Scheu Dental GmbH
Am Burgberg 20
58642 Iserlohn
Germany
Tel. 0049 2374 9288-0

2 Composition / information on ingredients

Chemical characterization

CAS-Number: 24937-78-8

Designation: Ethylenvinylacetat (EVA)

3 Handling and storage

Handling

Information for safe handling: When using do not eat, drink or smoke.
Provide suction extractors if dust is formed.

Storage

Storage conditions: Store dry and dark at max. 30°C

4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value
Form	-	Solid
Colour	-	Transparent, one coloured or multicoloured
Odour	-	Odourless
Density	ISO 1183	0,96 g/cm ³
Water absorption after 24 h at 23°C	ISO 62 Methode 1	< 0,2 %
UV-stabilized	-	Yes

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4.2 Mechanical properties

Properties	Guideline	Value
Tensile strength	ISO 527	>18 Mpa
Flectional strength	ISO 527	-
Impact strength 23°C	ISO 179/1eU	no fracture
Notched 23°C	ISO 179/1eA	no fracture
Yield strain	ISO 179	-
Yield stress	ISO 527	13 MPa
Elongation at tear	ISO 527	800-900 %
E-modulus	ISO 527	15 MPa
Hardness Shore A	DIN 53505	82
Hardness Shore D	DIN 53505	-
Rockwell Hardness	ISO 2039-1	-

4.3 Thermal properties

Vicat softening point	ISO 306 Methode B	42°C
Thermoform resistance	ISO 75 Methode A	70°C
Continuous stress temperature	ISO 75	60°C

4.4 Biological properties / Biocompatibility

The material has been tested on biocompatibility according to DIN EN ISO 10993. It meets the requirements regarding biological compatibility for medical products / devices.

5 Stability and reactivity

Thermal decomposition / Conditions to avoid:

No decomposition by indended use.

6 Disposal

The material can be recycled after separation or deposed of like commercial or household waste.

The aforementioned data are given most conscientiously but without any obligation. Any processing details are provided merely for guidance: it is the user's responsibility to check the suitability of the product for the intended application.