



Product datasheet BIOPLAST®XTREME

1 Identification of the substance / preparation / company

Product details

Trade name:	BIOPLAST®XTREME
Application of the substance / preparation:	Manufacture of dental deep drawing 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:	Ethylvinylacetat (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. 20°C
---------------------	---------------------------------

4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value 1 ▼	Value 2 ▼
Form	-	Solid	Solid
Colour	-	blue, black, red or clear	milky-transparent
Odour	-	Odourless	Odourless
Density	ISO 1183	0,96 g/cm ³	0,934 g/cm ³
Water absorption after 24 h at 23°C	ISO 62 Methode 1	< 0,2 %	< 0,2 %
UV-stabilized	-	Yes	Yes

4.2 Mechanical properties

Properties	Guideline	Value 1	Value 2
Tensile strength	ISO 527	>18 MPa	20 MPa
Flexional strength	ISO 527	-	-
Impact strength 23°C	ISO 179/1eU	no fracture	no fracture
Notched 23°C	ISO 179/1eA	no fracture	no fracture
Yield strain	ISO 179	-	-
Yield stress	ISO 527	13 MPa	25 MPa
Elongation at tear	ISO 527	800-900 %	> 700 %
E-modulus	ISO 527	15 MPa	-
Hardness Shore A	DIN 53505	85	92
Hardness Shore D	DIN 53505	-	36

4.3 Thermal properties

Vicat softening point	ISO 306 Methode A	-	67°C
	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 intended use.

6 Disposal

The material can be recycled after separation or deposited 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.