



Product datasheet BIOPLAST®

1 Identification of the substance / preparation / company

Product details

Trade name: BIOPLAST®
 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: 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. 20 °C

4 Physical, chemical, mechanical and biological properties

4.1 General properties

| Properties | Guideline | Value |
|--------------------------------------|------------------|--|
| Form | - | Solid |
| Color | - | Transparent, one colored or multicolored |
| Odor | - | Odorless |
| 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 |
| Flexional 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 | 85 |
| 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 intended use.

6 Disposal

The material can be recycled after separation or disposed 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.