

Product datasheet DURASOFT® seal

1 Identification of the substance / preparation / company

Product details

Trade name:	DURASOFT® seal
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:	75701-44-9
Designation:	Thermoplastic polyurethane (TPU)

3 Handling and storage

Handling

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

Storage conditions:	Store dry and dark at max. 30°C
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4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value
Form	-	Solid
Colour	-	Transparent
Odour	-	Odourless
Density	ISO 1183	1,2 g/cm ³
Water absorption after 24 h at 23°C	ISO 62 Methode 1	-

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4.2 Mechanical properties

Properties	Guideline	Value
Tensile strength	DIN 53504	50 MPa
Flexional strength	ISO 178	-
Impact strength +23°C	ISO 179/1	no fracture
Impact strength -30°C	ISO 179/1	5 KJ/m ²
Yield strain	ISO 179	-
Yield stress	DIN 53504	45 MPa
Elongation at tear	DIN 53504	300 %
E-modulus	ISO 527	560 MPa
Hardness Shore A	ISO 7619-1	-
Hardness Shore D	ISO 7619-1	73

4.3 Thermal properties

Vicat softening point	ASTM D 1525	160°C
Thermoform resistance	ISO 75	-
Continuous stress temperature	ISO 75	-

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.