

Product datasheet DURASOFT[®] seal

1 Identification of the substance / preparation / company

Product details

Trade name:

Application of the substance / preparation: Manufacturer / Supplier:

DURASOFT[®] seal

Manufacture of dental pressure moulding splints. Scheu Dental GmbH Am Burgberg 20 58642 Iserlohn Germany Tel. 0049 2374 9288-0

2 Composition / information on ingredients

Chemical characterization CAS-Number: Designation:

75701-44-9 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.

Storage

Storage conditions:

Store dry and dark at max. 30°C

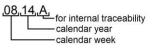
4 Physical, chemical, mechanical and biological properties

4.1 General properties

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

| Revision: | 2 | 15/18 | |
|-----------|---|-------|--|
| Replaced: | 1 | 10/14 | |

Hint: Valid to LOT 0314A





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| 4.2 mechanical properties | | | |
|---------------------------|------------|---------------------|--|
| Properties | Guideline | Value | |
| Tensile strength | DIN 53504 | 50 MPa | |
| Flectional 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 | |

4.2 Mechanical properties

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 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.

| Revision: Replaced: | 2 1 | 15/18 10/14 | Hint: Valid to LOT 0314A | Page 2 von 2 |
|------------------------|--------|----------------|-------------------------------------|--------------|
| | | | .08,14,A, for internal traceability | |

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