

# Product datasheet DURAN®

# 1 Identification of the substance / preparation / company

**Product details** 

Trade name: DURAN®

Application of the substance /

preparation:

Manufacturer / Supplier:

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: 25640-14-6

Designation: Polyethylenterephthalat-Glycol Copolyester

(PET-G)

### 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
Colour	-	Transparent
Odour	-	Odourless
Density	ISO 1183	1,27 g/cm <sup>3</sup>
Water absorption after 24 h at 23°C	ISO 62-4	0,2 %

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### 4.2 Mechanical properties

Properties	Guideline		Value
Tensile strength	ISO 527		53 MPa
Flectional strength	ISO 527		69 MPa
Impact strength 23°C	ISO 179/1eA		10 KJ/m²
Notched 23°C	ISO 180/1A		12 kJ/m²
Yield strain	ISO 527		-
Yield stress	ISO 527		5%
Elongation at tear	ISO 527		40 %
E-modulus	ISO 527		2200 MPa
Hardness Shore A	DIN 53505		-
Hardness Shore D	DIN 53505		78
Rockwell Hardness	ISO 2039-1	H358/30	115

4.3 Thermal properties		
	Vicat softening point	ISO 306
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Vicat softening point	ISO 306	~ 80°C
Thermoform resistance	ISO 75 Method A	68°C
	ISO 75 Method B	72°C
Continuous stress temperature	ISO 75 Method A	68°C
	ISO 75 Method B	72°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.

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