

Product datasheet CA[®] Pro

1 Description of the product / intended use / company

Trade name: **CA[®] Pro**

Intended use: Thermoplastic foils for the manufacture of appliances and splints for dental and orthodontic treatments.

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: -

Designation: Copolyester/
Thermoplastic Elastomer (TPE)

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 5 - 35 °C

4 Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Guideline	Value (Copolyester)	Value (TPE)
Form	-	Solid	Solid
Colour	-	Transparent	Transparent
Odour	-	Odourless	Odourless
Density	ASTM D792	1,27	1,11
Water absorption after 24 h at 23°C	ISO 62	0,13 %	-

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4.2 Mechanical properties

Properties	Guideline	Value (Copolyester)	Value (TPE)
Tensile Strength	ASTM D882/ ASTM D412	52 MPa	31 MPa
Flexural Modulus	ASTM D790	2100 MPa	24 MPa
Elongation at break	ASTM D882/ ASTM D412	400 %	670 %
Shore hardness A	ASTM D224	-	83
Rockwell hardness	ASTM D785	106	-

4.3 Thermal properties

Properties	Guideline	Value (Copolyester)	Value (TPE)
Glass transition temperature	ASTM D3418	80 °C	- 33 °C
Vicat softening temperature	ASTM D1525	85 °C	74 °C

4.4 Biological properties / Biocompatibility

A biological evaluation was carried out for the material in accordance with DIN EN ISO 10993-1. It meets the requirements regarding biocompatibility for medical 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.