

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 gmra@scheu-dental.com

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.
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Storage

Storage conditions:	Store dry and dark at 5 - 35 °C
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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 raw material can be recycled after separation or disposed of like commercial or household waste.

The above information is provided to the best of our knowledge. In addition to the information provided, it is recommended to check the suitability of the products individually regarding the respective application and associated procedures and purposes.

Serious incidents in connection with the use of the product shall be reported immediately to the manufacturer (gmra@scheu-dental.com) and the competent authority.