

Product Data Sheet CA[®] Pro

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Details

Trading name:	CA[®] Pro
Relevant identified uses of the substance/ preparation	Production of dental pressure moulding splints
Manufacturer / supplier:	SCHEU-DENTALGmbH Am Burgberg 20 58642 Iserlohn Phone+ 49 2374 9288 0.

2. Composition / information on ingredients

Chemical characterization

Designation	ABA three-layer material consisting of Copolyester (A) and thermoplastic elastomer (B)
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Material structure

A: Copolyester (hard)
B: Thermoplastic elastomer (soft)
A: Copolyester (hard)

Distribution of layer thickness

Material thickness	0.5	0.625	0.75
A-layer / mm	0.17	0.21	0.25
B-layer / mm	0.17	0.21	0.25
A-layer / mm	0.17	0.21	0.25

3. Handling and Storage

Handling

Information on safe handling:	Do not eat, drink or smoke while working. In case of dust formation, use suction
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Storage

Storage Conditions:	Store in a cool, dry, and dark place. Storage temperature no more than 30°C
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Transport:

Transport conditions:	Store in a cool, dry, and dark place. Storage temperature no more than 30°C Short-term up to 50 ° C.
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Product Data Sheet CA[®] Pro

Processing:

Processing information:

Process material within 15 min. after opening the barrier bag. Process only material from undamaged barrier bags
 Processing temperature 150 ° C -175 ° C.
 Do not exceed maximum temperature of 175 ° C !
 For detailed information see Processing information!

4. Physical, chemical, mechanical and biological properties

4.1 General properties

Properties	Test Methods	Value (thermoplastic elastomer)	Value (Copolyester)
Form	-	solid	solid
Colour	-	transparent	matt/ transparent
Odour	-	odourless	odourless
Density	ISO 1183	1.12 g/cm ³	1.27 g/cm ³
Water absorption at 23 ° C after 24 h	Method 1acc. to ISO 62	-	0.13 %

4.2 Mechanical properties

Properties	Test Methods	Value (thermoplastic elastomer)	Value (Copolyester)
Tensile strength:	ISO 527	29 MPa	50 MPa
Elongation at yield	ISO 527	-	5 %
E-module	ISO 527	-	2100 MPa
Elongation at break	ISO 527	650 %	140 %
Flexural strength	ISO 178	-	68 MPa
Impact strength at 23 ° C	ISO 180	-	No break
Notch impact strength at 23 ° C	ISO 180	-	6.2 kJ/m ²
Tensile impact strength at 23 ° C	ISO 8256	-	92 kJ/m ²
Hardness, Shore A	DIN 53505	85	-
Hardness, Shore D	DIN 53505	-	79
Rockwell hardness	ISO 2039-2, scale R	-	109

Properties	Test Methods	Three layer material
Tensile strength:	ISO 527	35,6 MPa
Elongation at yield	ISO 527	6 %
E-module	ISO 527	1600 MPa
Tensile impact strength	ISO 8256	107 kJ/m ²

Product Data Sheet CA[®] Pro

4.3 Thermal properties

Properties	Test Methods	Value (thermoplastic elastomer)	Value (Copolyester)
Vicat softening temperature	ISO 306	82°C	85 °C
Temperature resistance	ISO 75 Method A	-	64°C
	ISO 75 Method B	-	70°C

4.4 Biological properties / biocompatibility

The material has been tested according to DIN EN ISO 10993 for biocompatibility and meets the requirements for biocompatibility of medical devices.

5. Stability and Reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

6. Instructions for disposal

The material can be delivered to the house or-industrial waste.

The above information is given to the best of our knowledge, but can only provide non-binding advice. Any processing details are indicative and do not absolve the user from the obligation to check the suitability for the intended application.