

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-DENTAL GmbH Am Burgberg 20 58642 Iserlohn Phone+ 49 2374 9288 0.

2. Composition / information on ingredients

Chemical characterization

Designation	ABA three-layer film consisting of Copolyester (A) and Thermoplastic elastomer (B) With detachable isolation foil (PE)!
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Material structure

A: Copolyester (hard)
B: TPE (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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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	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	26 MPa
Elongation at yield	ISO 527	6 %
E-module	ISO 527	1600 MPa
Tensile impact strength	ISO 8256	107 kJ/m ²

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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.