

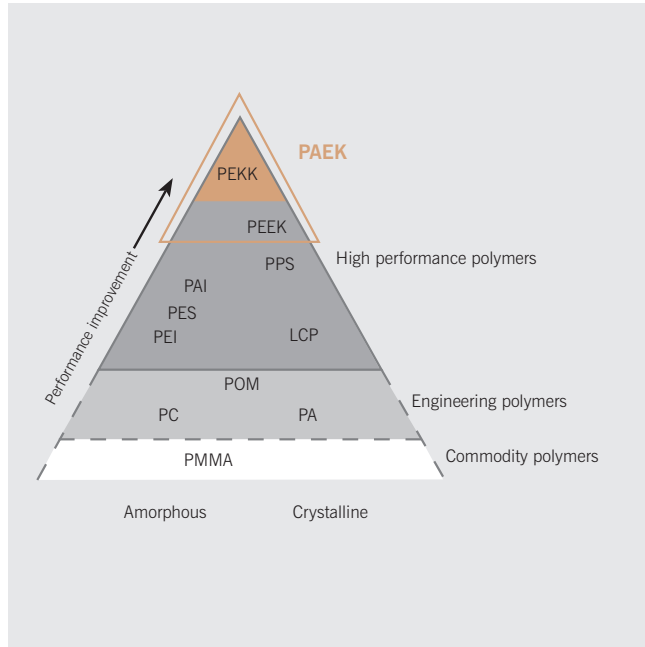


**+ Pekkton® ivory.**

high performance polymer for  
definitive aesthetic restorations  
on implants.

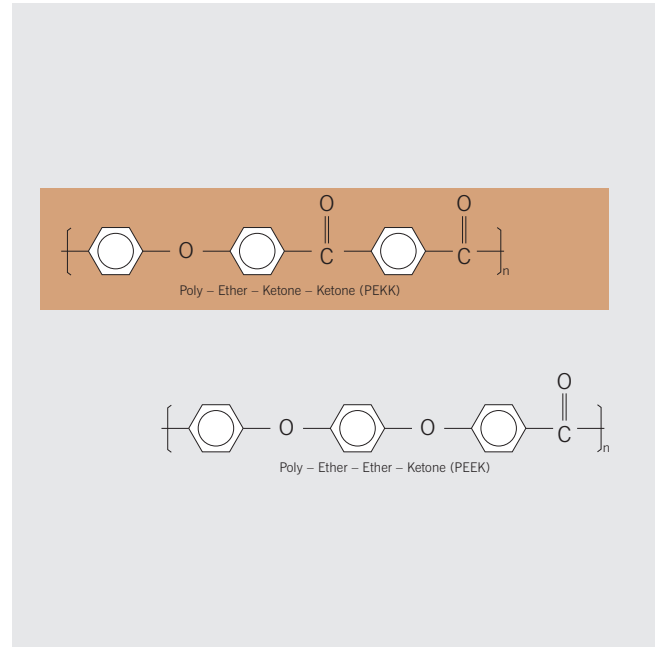
# High performance polymer PEKK.

The material of the future.



## The performance pyramid

PEKK stands at the apex of the PAEK family.



## The PEKK chemical structure

The PEKK chemical structure guarantees the best mechanical properties of all PAEK. The PEKK has for example up to 80% greater compression strength than PEEK.

## The latest generation: PEKK

The superior high performance polymer Pekkton® ivory is the solution for definitive, aesthetic, patient-friendly restorations in implant dentistry.

To meet the demanding biomechanical criteria of prosthetic solutions, Cendres+Métaux has secured the exclusive rights to Pekkton® (PEKK): the top product among thermoplastic polyaryletherketones.

High performance polymer:

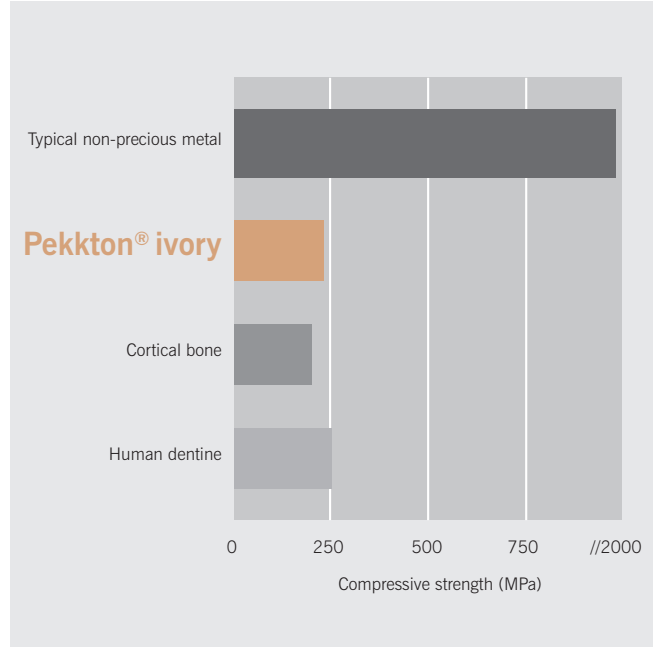
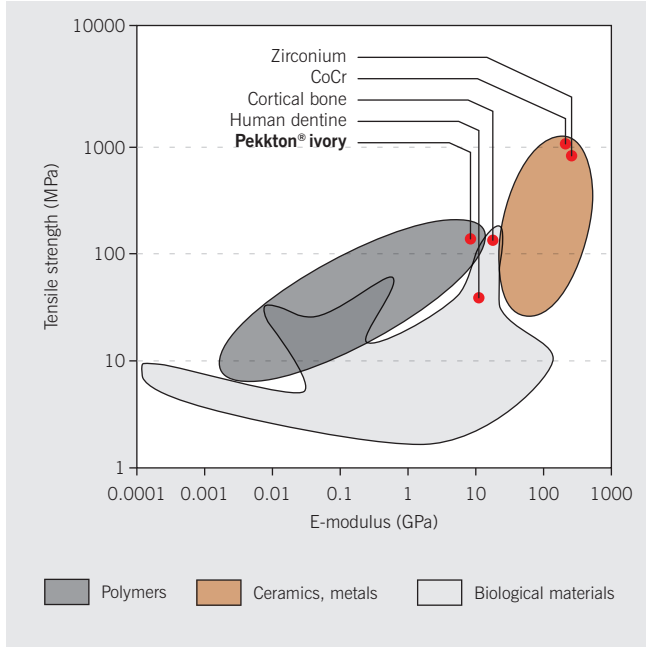
- Has similar characteristics to those of human bone
- Shock absorption
- Light-weight and natural for the patient

Pekkton® ivory:

- Available exclusively from Cendres+Métaux
- The latest generation of polymers

# Pekkton® ivory.

Similar properties to biological materials.



## Biological

Pekkton® ivory has similar characteristics to those of human bone.

## Compressive strength

Pekkton® ivory is comparable to human dentine and cortical bone in terms of compressive strength. It allows better bio-mechanical integration than typical non-precious metals.

## Unique properties

Thanks to its unique, nature-adapted, mechanical, physical and chemical properties, Pekkton® ivory offers a broader spectrum of applications than other polymers.

|                        |     |     |
|------------------------|-----|-----|
| Compressive strength   | 246 | MPa |
| Bending strength       | 200 | MPa |
| Flexural modulus       | 5.0 | GPa |
| E-modulus              | 5.1 | GPa |
| Tensile strength (MPa) | 115 | MPa |

|                              |     |                    |
|------------------------------|-----|--------------------|
| Melting point                | 363 | °C                 |
| Density                      | 1.4 | g/cm <sup>3</sup>  |
| Water absorption             | 8.7 | µg/mm <sup>3</sup> |
| Solubility                   | 0.2 | µg/mm <sup>3</sup> |
| Hardness (DIN EN ISO 2039-1) | 252 | MPa                |

# Pekkton® ivory.

For successful restorations on implants.



## Modern materials and traditional techniques

Important aspects for this case on 6 implants were the feel of the restorations, the aesthetics, youthful appearance, depth of colour and overall symmetry. Pekkton® ivory was the patients' material of choice.



- a) Pressed Pekkton® ivory framework, prepared for veneering
- b) Individual pressed copings veneered with ceramic
- c) Natural gingival design with light-cured composite



### Full-arch bridge on implants

Pekkton® ivory framework provides the patient with a lightweight aesthetic and extremely strong restoration that offers shock absorbing properties not found in traditional implant restorative materials.

### Other indications



Removable restorations, such as secondary constructions on bars and telescopic crowns, transversal connectors, occlusal splints and denture bases.



Definitive supported, veneered single crowns and bridges with a maximum of one pontic on natural teeth.

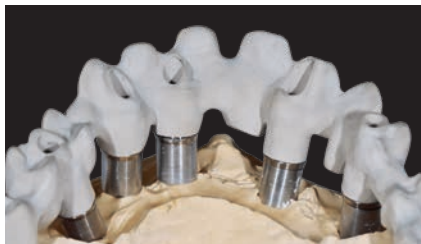


Unveneered parts e.g. crown margins and backings.

# Clinical cases.

Results in day-to-day life.

## Full-arch bridge screwed on 5 implants



## Molar crown on an implant



**Skeletal partial framework stabilised by 5 natural telescopic abutments in the upper jaw**



**Screwed restoration on implants in the upper and lower jaw**



# Pekkton® ivory.

## Benefits.

### Shock-absorbing

Excellent for your restoration on implants



### For milling and pressing

Easy to mill and perfect to polish



### Break new ground, join the new world of materials with Pekkton® ivory

- Shock-absorbing
- Metal-free
- Similar properties to biological materials
- Extremely low water absorption
- Caries control
- Visible in the X-ray
- Excellent «weight-to-strength ratio»
- Can be sterilised
- Biocompatible

### Pekkton® ivory: analog or digital processing

- For an excellent fit and full control in the dental laboratory
- Time savings and guaranteed consistent quality throughout the digital process



## Aesthetic

High flexibility in the choice of veneering



## Definitive

Happy patients thanks to the natural feel in the mouth



### A wide range of veneering

- Composites
- Shells
- Teeth
- Ceramic crowns

### Pekkton® ivory makes your patients smile

- Strong and light
- No metal allergies
- No taste
- No thermal or electrical conductivity

# Traditional processing. Pressing.

For an excellent fit and full control in the dental laboratory



## PEKKtherm

The device makes it easy and safe to stabilise the muffle temperature (out of the preheating furnace) to the correct pressing temperature. Pekkton® ivory is then melted before the pressing process.

## PEKKpress

This device is used to efficiently and gently inject Pekkton® ivory after the material and muffle have been prepared in the PEKKtherm device.



PEKKtherm



PEKKpress

# Digital processing.









## Milling.

Time savings and guaranteed consistent quality throughout the digital process



# Portfolio.

The essence of success.

| Order No. |   | Description   |
|-----------|---|---|
| 01060011  |    | Pekkton® ivory milling blank ø 98.5/16mm (with steps)               |
| 01060020  |   | Pekkton® ivory milling blank ø 98.5/20mm (with steps)               |
| 01060022  |   | Pekkton® ivory milling blank ø 98.5/24mm (with steps)               |
| 01060028  |   | Pekkton® ivory milling blank ø 95/16mm (compatible with Zirkozahn®) |
| 01060030  |   | Pekkton® ivory milling blank ø 95/20mm (compatible with Zirkozahn®) |
| 01060032  |   | Pekkton® ivory milling blank ø 95/24mm (compatible with Zirkozahn®) |
| 01060003  |    | Pekkton® ivory – press ingots / 10 p.                               |
| 08000141  |    | Disposable press-stamp (ø 12mm, incl. seal) / 50 p.                 |
| 08000626  |   | Disposable press-stamp (ø 12mm) / 50 p.                             |
| 08000627  |   | Disposable press-stamp (ø 26mm) / 20 p.                             |
| 08000628  |   | PEKKpress muffle former set 200g                                    |
| 08000629  |   | PEKKpress muffle former set 600g                                    |
| 083872    |  | CM-20 investment (50 x 160g)  |
| 083739    |   | Liquid 1000ml (CM-20)   |
| 08000570  |  | visio.link (Primer)   |
| 70202393  |  | PEKKpress – pressing unit   |
| 70202394  |  | PEKKtherm – temperature stabilisation and melting furnace           |

Please follow the instructions for use for further information on indications, contraindications, warnings and precautions.

Pekkton® ivory is based on OXPEKK® by OPM, Oxford Performance Materials, Inc., USA.



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