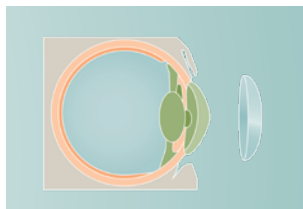
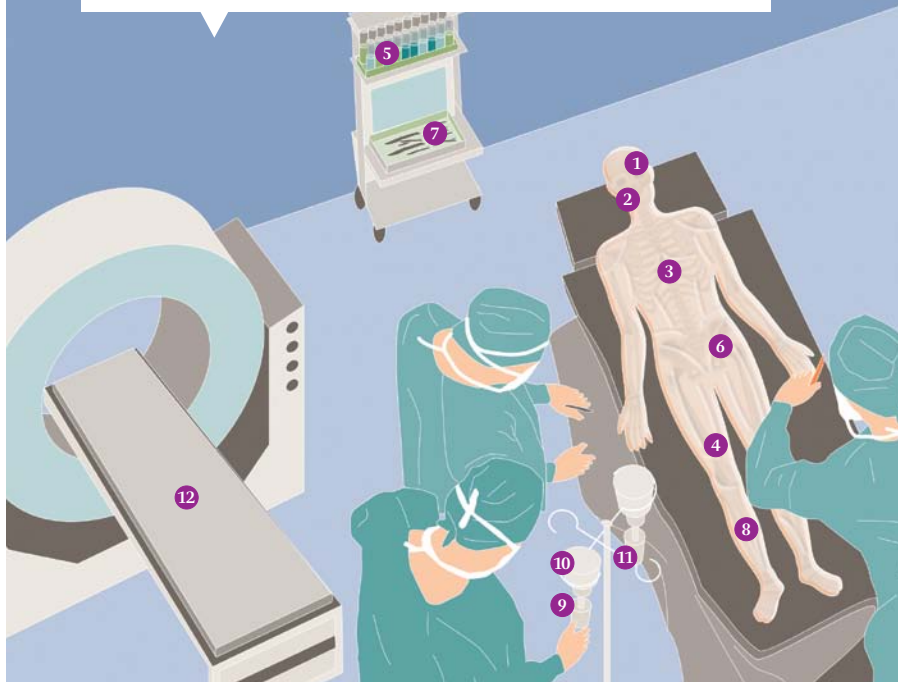


# A MATERIALS TOOLBOX for medical technology



## Customized materials solutions for medical devices



### 1 VISIOMER®

VISIOMER® UHP HEMA, MMA, HEMATMDI, EGDMA, TRGDMA: As one of the leaders in the production of Methacrylate monomers, Evonik offers highly purified hydroxyester and multi-functional methacrylates for the production of diverse medical products.

Typical applications include: Contact lenses, IOL, bone cements, dental fillings and dentures.

**As one of the technology leaders in materials design** and with more than forty years experience, Evonik offers customized products for the medical sector.

The product portfolio includes special polymers for medical technology and biomaterials for long- and short-term implants as well as non-implants applications.

Evonik. Power to create.



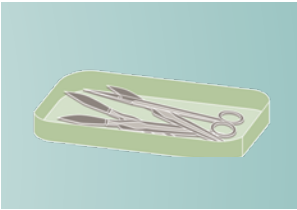
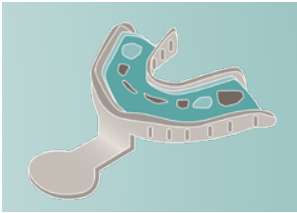
For further information  
please visit our website or  
contact us.

[www.evonik.com/medical](http://www.evonik.com/medical)

## 2 POLYMER VS. RV, MV and NANOCRYL®

Evonik Hanse GmbH offers a wide range of silicone and acrylic based materials which can be used in formulations for different medical products.

**Typical applications include:**  
Dental impression, bite registrations, composite fillers, exoprothetics and cushionings.



## 2 DEGACRYL®

Products of the DEGACRYL® range are PMMA polymers and copolymers distinguished by consistent quality with narrow specifications and superior free flowing properties. A broad portfolio allows choosing the suitable type for applications as in the dental and medical fields.

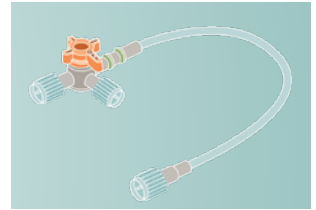
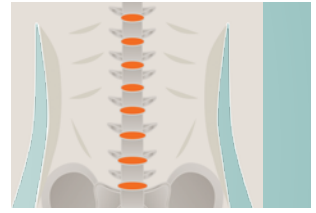
**Typical applications include:**  
Dentures, artificial teeth, bone cement.



## 3 VESTAKEEP® PEEK

Implants from VESTAKEEP® PEEK provide a new level of quality in medicine: our PEEK polymers are used especially because of their outstanding biocompatibility and biostability.

**Typical applications include:**  
Spine, sports medicine, trauma, CMF, cardiovascular, drug ports, dental, medical textiles, ophthalmic, surgical instruments, housings.



## 7 EUROPLEX® PPSU sheets and VESTAKEEP® PEEK films

Our EUROPLEX® sheet materials are especially suitable for sterilizable containers and orthopedic applications. VESTAKEEP® films may be used as a sliding layer or electrical insulator in chemically demanding environments.

## 8 DEGAPLAST®

Orthopedic exoprotheses provide high mobility and freedom of movement to disabled people. Besides metals, polymers play an important role here, too, with DEGAPLAST® based lamination systems occupying a prominent position, particularly in the handcrafting industry.

DEGAPLAST® resins are methacrylate formulations based on MMA, solved PMMA, and special modifiers. The cured parts are thermoplastic and not brittle.

## 9 TROGAMID® Care

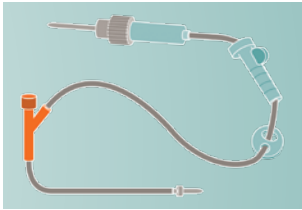
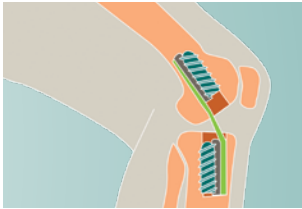
TROGAMID® Care is a highly transparent PA that is resistant to stress cracking. Because of its outstanding chemical resistance it is used especially in applications that come into contact with drugs and body fluids.

**Typical applications include:**  
Stopcocks, catheters, hearing aids, housings.

#### 4 RESOMER®

Fractures can now be treated with biodegradable implants made from the RESOMER® family of lactide/glycolide based polyesters. They don't have to be removed in a follow-up surgery but dissolve in the body over defined time periods.

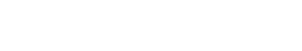
**Typical applications include:** Sports medicine, trauma, CMF, coronary stents, drug depots, regenerative medicine, medical coatings.



#### 10 CYROLITE®, CYREX® and XT®

Acrylic based multi-polymer compounds for medical devices and packaging delivering excellent chemical and lipid resistance. Sterilizable, bondable, BPA free and antimicrobial grades are available.

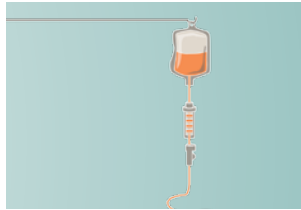
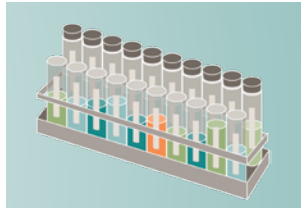
**Typical applications include:** Medical consumables like e.g., luer locks, dialyzer housings, protection caps and covers, blood/plasma separators, collection and specimen vessels, connectors and injection ports, catheter accessories.



#### 5 CYROLITE® MD

Acrylic Polymers for medical diagnostics applications requiring exceptional light transmittance and optical clarity. High flow for fast processing and multicavity tooling.

**Typical applications include:** Diagnostic cuvettes, diagnostic test packs, optical sensor view ports, crystallography trays, microfluidics, rotors.



#### 11 VESTODUR®

Specialty VESTODUR® polybutylene terephthalate compounds are licensed for direct contact with active ingredients. These compounds are easy to process and the moldings made of them are dimensionally stable.

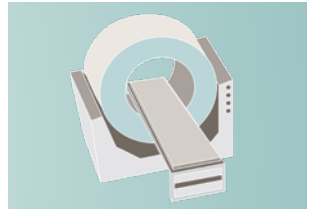
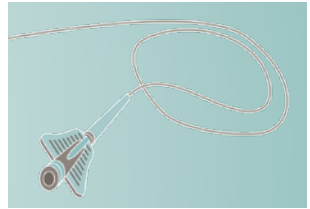
**Typical applications include:** Blood filters.



#### 6 VESTAMID® Care

VESTAMID® Care PA (polyamide)/PEBA (polyether block amide) is used successfully as a catheter material because of its high bursting resistance. This is provided by the combination of flexibility and pliability, toughness and hardness.

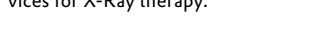
**Typical applications include:** Catheters, housings, surgical instruments.



#### 12 ROHACELL®

Medical table tops using ROHACELL® polymethacrylimide foam as the structural core are not only lighter, but much thinner. Their reduced mass means radiation levels required for radiology can be kept at a minimum, thereby exposing the patient to much less radiation and lowering health risks. Thinner table tops also reduce scatter radiation and provide X-Ray images of much higher quality.

**Typical applications include:** Table and couch tops for X-Ray and CT scan machines, operating tables, mammography plates, fixation devices for X-Ray therapy.



### Contact details

**VESTAKEEP® PEEK**  
[www.vestakeep.com](http://www.vestakeep.com)

**VESTAMID® Care, TROGAMID® Care  
and VESTODUR®**  
[www.vestamid.com](http://www.vestamid.com)  
[www.trogamid.com](http://www.trogamid.com)  
[www.vestodur.com](http://www.vestodur.com)

**EUROPLEX® PPSU sheets**  
[www.performance-plastics.com](http://www.performance-plastics.com)

**ROHACELL®**  
[www.rohacell.com](http://www.rohacell.com)

**RESOMER®**  
[www.resomer.com](http://www.resomer.com)

**DEGACRYL® and DEGAPLAST®**  
[www.degacryl.com](http://www.degacryl.com)  
[www.evonik.com/degaplast](http://www.evonik.com/degaplast)

**VISIOMER®**  
[www.visiomer.com](http://www.visiomer.com)

**CYROLITE®, XT®, CYREX®  
and CYROLITE® MD**  
[www.cyrolite.com](http://www.cyrolite.com)

**POLYMER VS and NANOCRYL®**  
[www.evonik.com/hanse](http://www.evonik.com/hanse)

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