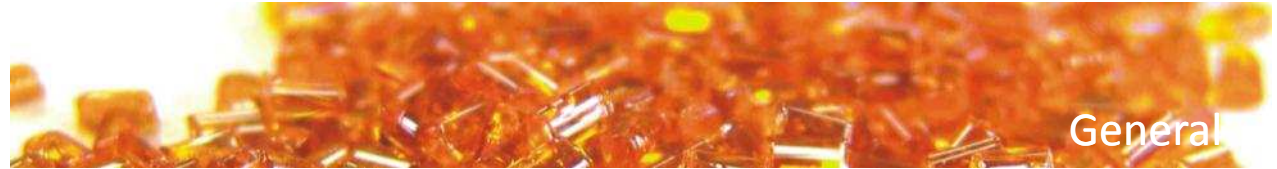


Vlaams Kunststofcentrum V.Z.W.



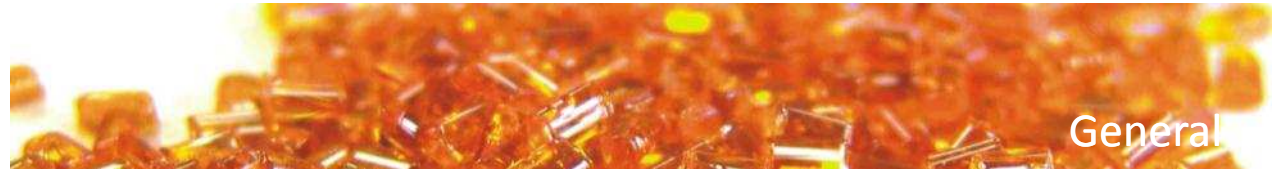


Summary

- VKC
- Mission
- Target group
- Strengths of VKC
- Pillars VKC
- Activities
- Network
- Useful information



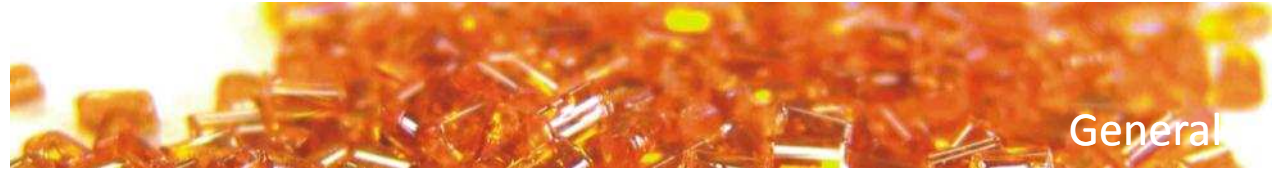
Etienne Sabbelaan 49
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Who are we

“The VKC is a technical knowledge centre for the plastic industry”

- Founded 1st July 1996, operational anno 2001
- Location @ KULAK-site Kortrijk
- 15 founder companies, 19 additional partners
- Membership possibility



Mission

“Technical support and expansion of the sector”

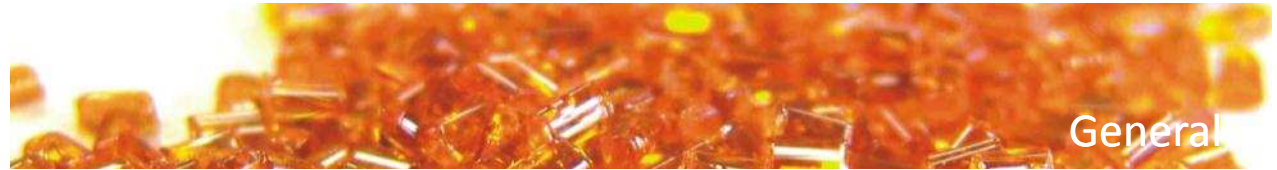
- Technical support by means of a proper technology park and the necessary human resources
- Acquisition and transfer to the industry of knowledge by means of trainings, seminars, testing and consults
- Supporting innovation, project initiation and R&D support
- Networking



Target group

“Sectors dealing with plastics”

- Raw material producers
- Machine suppliers
- Product designers
- Tool manufacturing
- Plastic converting industry



Strenghts of VKC

- Quick respons
- Flexibility
- Quality
- Neutrality
- Confidentiality
- Accessibility



The pillars of VKC





Knowledge and Advice

- Product development
- Raw material
- Compounding
- Process engineering
- Product optimization
- Surface technologies
- Standards & Patents



The pillars of VKC





ARBURG
320S – 500- 150

Clamping force: 500 kN



Krauss Maffei
125–700 C2

Clamping force: 1250 kN



ENGEL
250/1350HL

Clamping force: 2500 kN



DEMAG
Ergotech 500-3300

Clamping force: 5000 kN



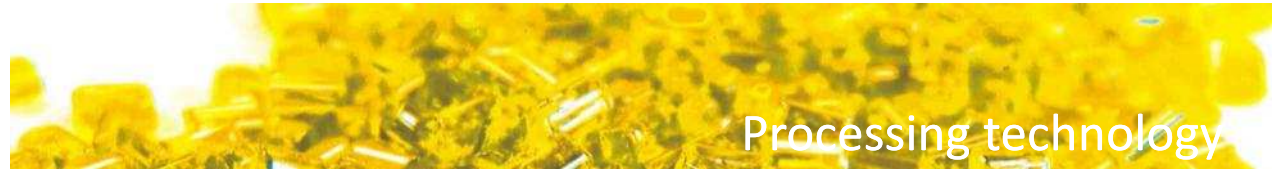
ARBURG
470A-1000-400
Aldrive

Clamping force: 1000 kN



ENGEL
e-motion 280 EL

Clamping force: 2000 kN



Machines: ➤ Compounding





Artificial ageing

Weathering Xenon
with water spray

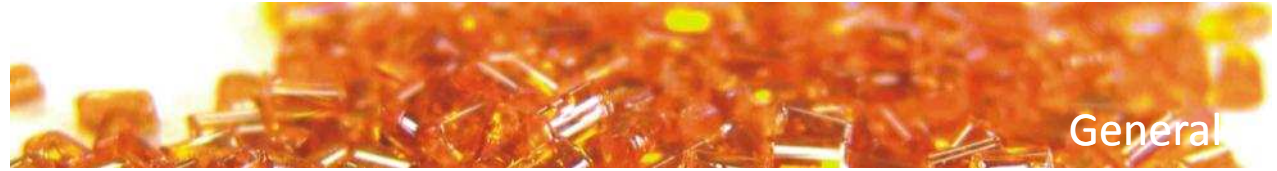


Weathering UV
with submerging



QUV - tester





The pillars of VKC

Knowledge & advice

Process Technology

Research
&
lab-expertise

Training

Networking



Determination of material properties

Thermal analysis

DSC

Differential Scanning
Calorimeter



TGA

ThermoGravimetric
Analyser



DMA

Dynamic Mechanical
Analyzer





Determination of material properties

Spectroscopie

FT-IR

Fourier Transform Infrared
Spectroscopy



Rheology

Capillaire rheometer



MFR (Melt Flow rate)
MVR (Melt Volume rate)



Determination of material properties

Mechanical and physical testing

Tensile testing



Impact test
izod en sharpy



Shore A & D



Taber scratch test



Taber
Abrasion test





Determination of material properties

Mechanical and physical testing

Colour and Gloss



Conductivity



Dart drop test





Determination of material properties

Mechanical and physical testing

Creep test



VST vicat softening temperature
HDT heat deflection temperature



Determination of material properties

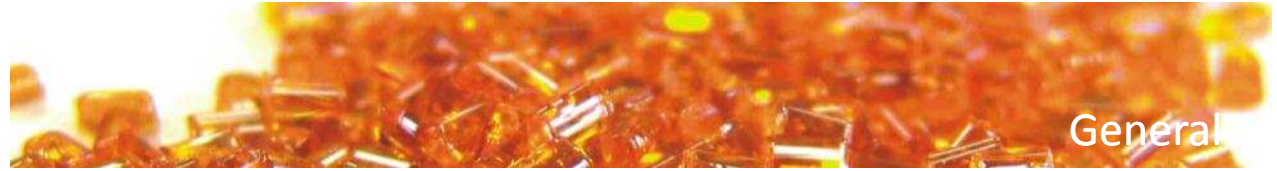
Surface treatment

Atmospheric plasma



Corona





The pillars of VKC

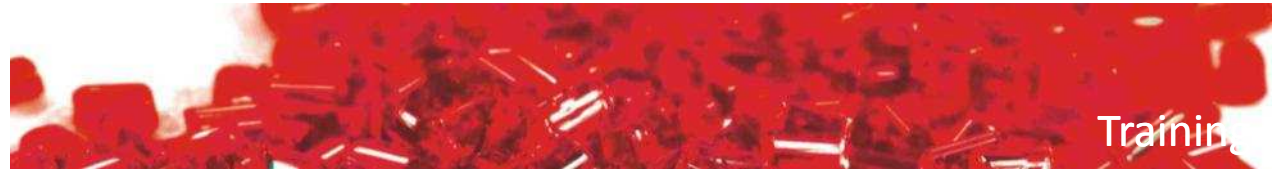
Knowledge & advice

Process Technology

Research
&
lab-expertise

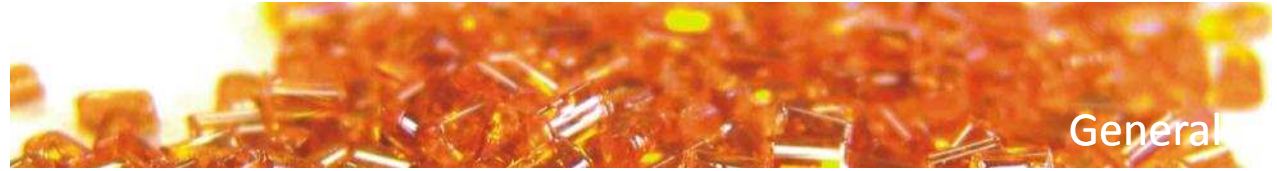
Training

Networking



Training

- Open training:
 - Raw material
 - Plastic processing
 - Lab analysis
- Custom made training
- Seminars
- VKC is recognised in the SME-grants systems for training under DV.O101538



The pillars of VKC

Knowledge & advice

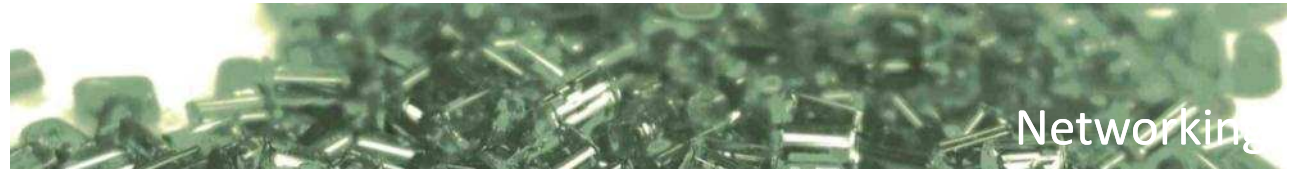
Process Technology

Research
&
lab-expertise

Training

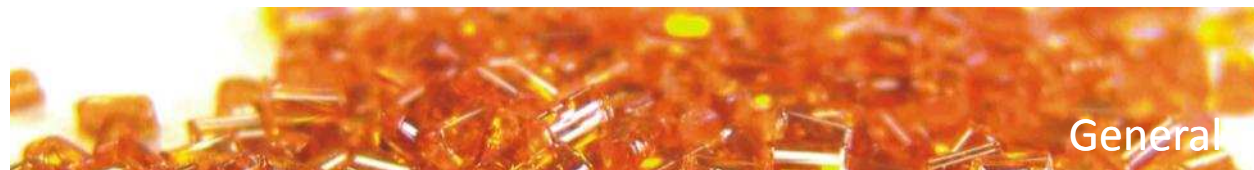
Networking





Networking

- Technology acquisition and transfer
 - Technology centre
 - National: VITO, SIRRIIS, WTCB, CERTECH, Centexbel, BVI, Flanders Drive, Flanders Food, Flanders Inshape, Innovatiecentra, Federplast, Polygonia, ...
 - International: CRITT-M2A, ASCAMM, CREPIM, RAPRA, Plasti Polis, PEP, SKZ, IKV, TNO, Proplast, Enterprise Europe Network, ...
 - Universities
 - KUL, VUB, RUG, Hogeschool Gent, KHBO Oostende, Cel Kunststoffen, KAHO St.-Lieven, enz.
 - Industry (members & contacts, ...)



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