

# area of operation

Analysis of dependences between process parameters and product properties

Determination of the product properties

- Tensile and flexural strength
- Stiffness
- Impact resistance
- Adhesion of the surface material
- Emissions
- Smell



Evaluation of

- Optical characteristics
- Feel of surface
- Filling of the mould
- Distorsion of the part of mould
- Defects in the product

# Process and technology

Natural long fiber reinforced poly-propylen NAFARU®



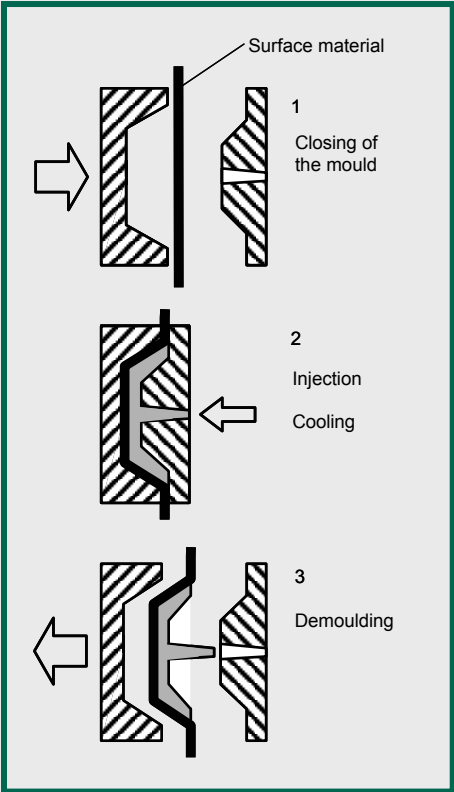
In-mould decoration with practice-orientated mould

Textiles, Leather Plastic Films



Determination of

- Viscosity
- Flow behavior
- Flowability
- Processability etc.



Determination of

- Mass per area unit
- Thickness
- Apparent density
- Maximum tensile load
- Elongation
- Flexural strength etc.

Decorated part



The complete service offering of TITK and OMPG is listed in the following overview:

## Development of compositions and processes

### Material testing of...

- plastics / compounds
- plastic parts
- plastic films
- fibre compounds
- foam plastics
- textile area-measured materials / non-wovens
- fibres / yarns / filaments
- leather / leatherette
- rubber
- polymer solutions
- electrical and electronic equipment with take-back obligation

### ...in the fields of

- physical - mechanical tests / rheology
- chemical analysis (analysis of materials and hazardous substances)
- microscopy
- thermal characterisation
- colour determination
- determination of electrical properties
- optical tests
- particle analysis
- dynamic ESR-spectroscopy

### Subsequent processing of materials

- production of non-wovens (needle, wetlaid, spinn non-wovens)
- composite production (compression, injection moulding, winding)
- production of laminate
- melt, wet and dry spinning

Visit us on [www.titk.de](http://www.titk.de) for more details.

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**Ostthüringische Material-  
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*In-Mould Decoration  
with natural long  
fiber reinforced  
polypropylen*

