

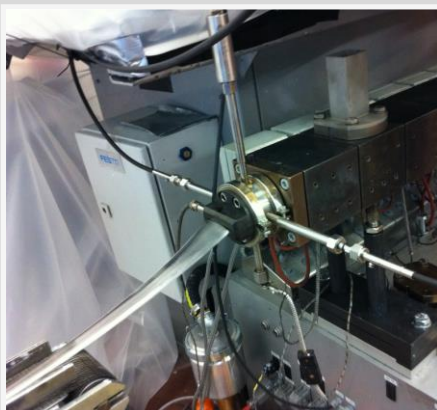
**QUALITY by DESIGN**  
**NEW WAYS of INTEGRATING**  
**PAT MEASUREMENT**  
**in HOT MELT EXTRUSION**



- UV-VIS Spectrophotometer
- Full range, high resolution
- Flexible optical probes
- For opaque & transparent



**PAT measurement**  
**on opaque material**



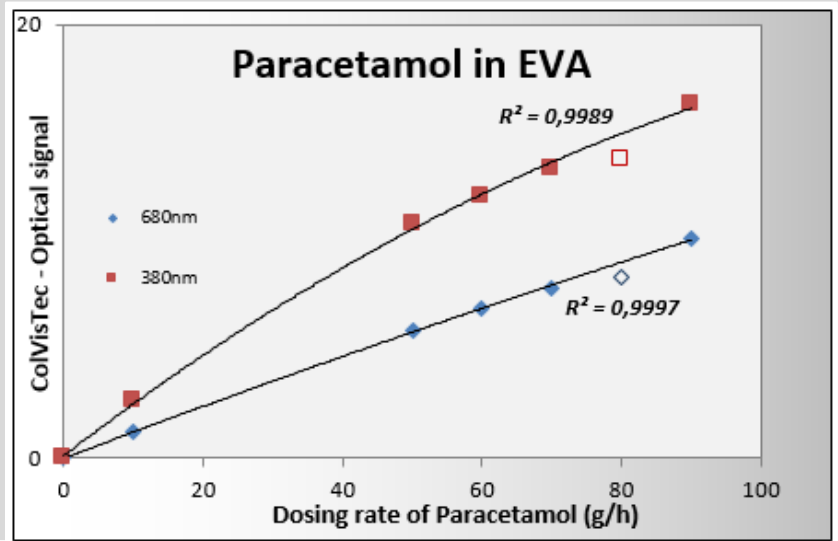
**PAT measurement on**  
**transparent material**



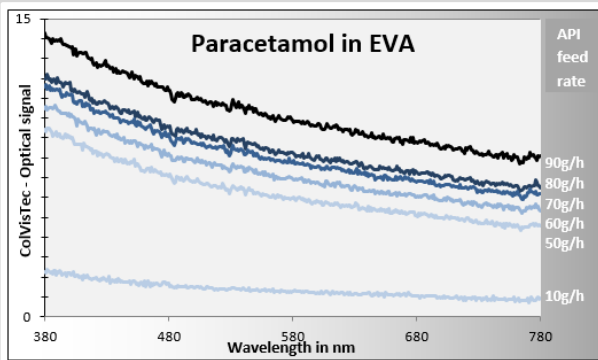
**COLVISTEC's UV-VIS Spectrophotometer**

## WHAT CAN YOU DO WITH IT?

### Concentration of Paracetamol in EVA

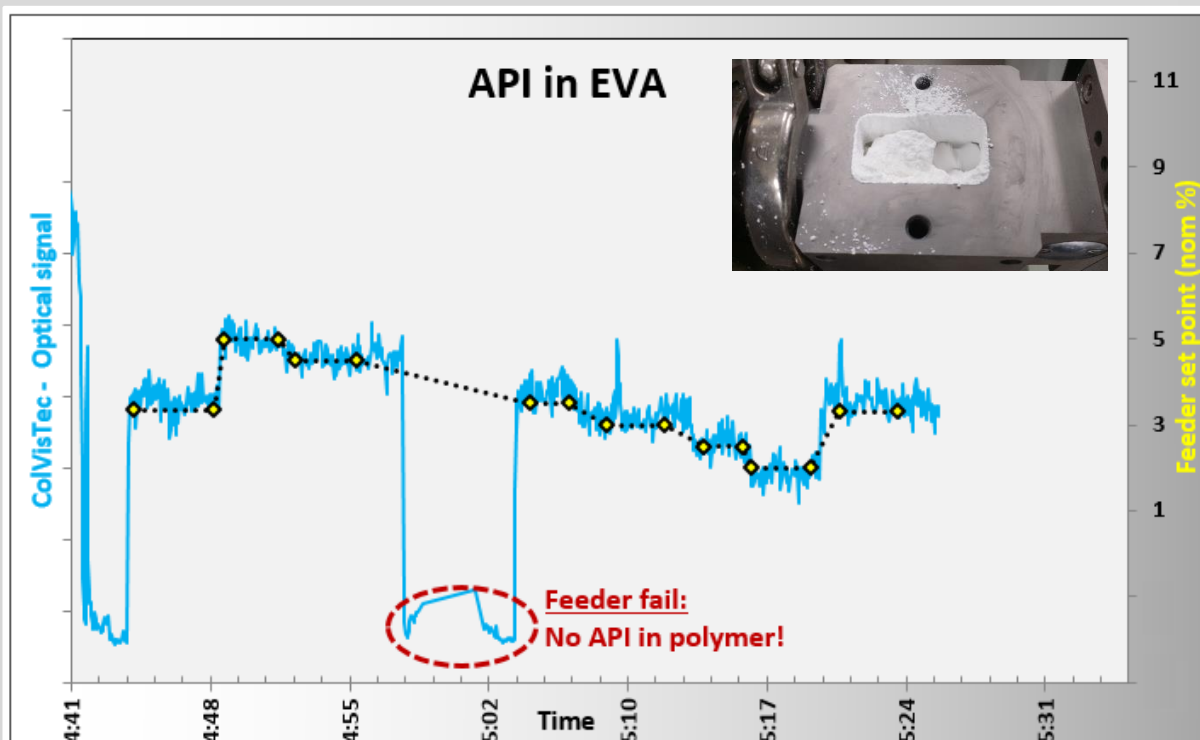


*Paracetamol dosage unstable at 80 g/h.*



*2 kg/h throughput of EVA.*

### Concentration of API in EVA



*Real-time PAT measurement on API concentration vs. nominal feed rate.*

*No API in polymer detected because of bridge building (see picture).*