

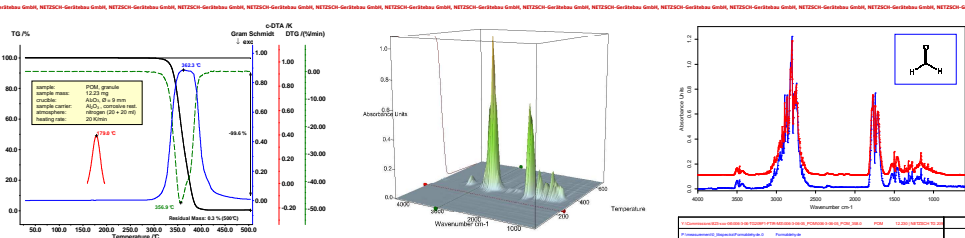
CHARACTERIZATION OF POLYMERS BY MEANS OF TG-FTIR (II)



Ekkehard Füglein and Claire Louis

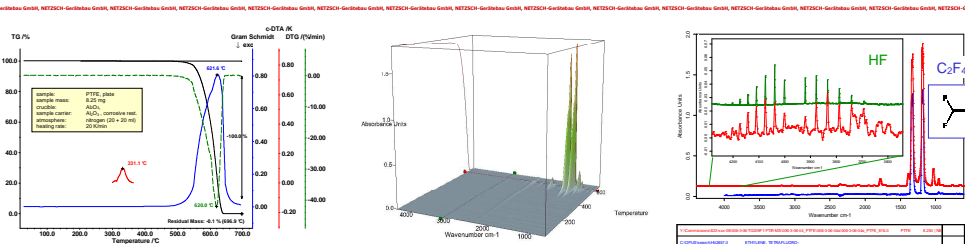
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POM



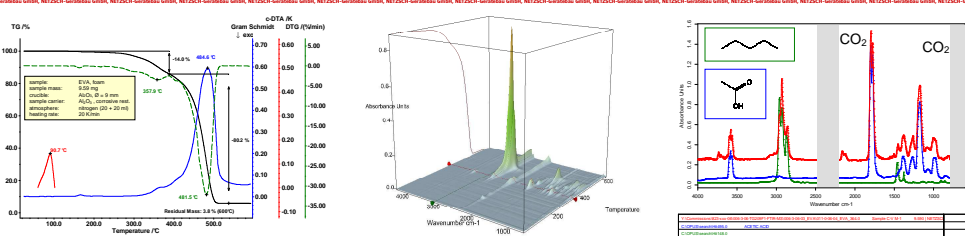
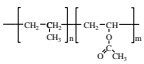
Temperature of decomposition (DTG minimum): **357°C**
Main decomposition products: **formaldehyde**

PTFE



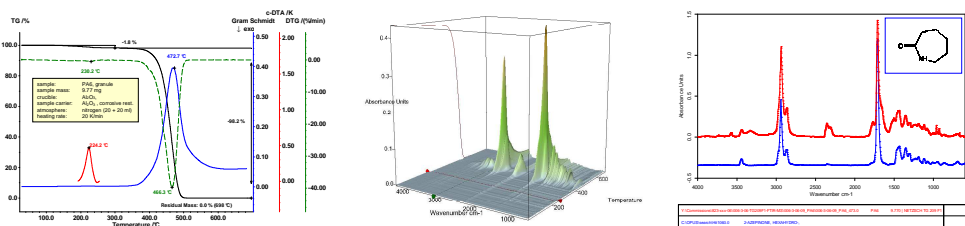
Temperature of decomposition (DTG minimum): **620°C**
Main decomposition products: **tetrafluoroethylene, hydrofluoric acid**

EVA



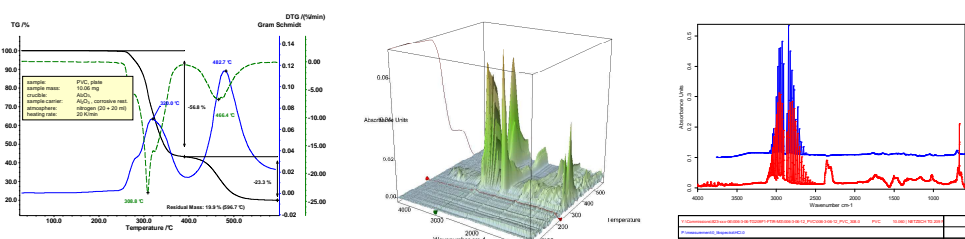
Temperature of decomposition (DTG minimum): **482°C**
Main decomposition product: **acetic acid, hydrocarbon**

PA6



Temperature of decomposition (DTG minimum): **466°C**
Main decomposition product: **ε-caprolactam**

PVC



Temperature of decomposition (DTG minimum): **309°C, 466°C**
Main decomposition product: **hydrochloric acid, chlorinated alkane**

All measurements were carried out employing alumina crucibles, heating rate: ZU K/min, atmosphere: nitrogen, purge gas flow rate: 40 ml/min