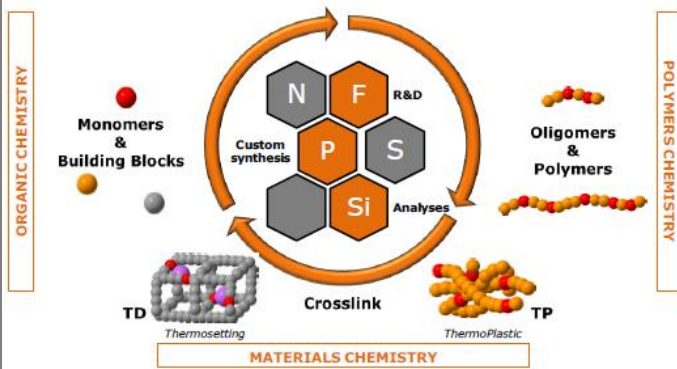


SYNTHESIS

Functional Monomers, Oligomers, Polymers



ANALYSIS

- ❑ **NMR Analysis (¹H, ³¹P, ¹⁹F, ¹³C, DOSY, COSY)**
BRUKER 300 MHz
- ❑ **Size Exclusion Chromatography (Mn, Mw, Ip)**
Agilent Technologies, RI detector, THF
- ❑ **DSC Analysis (Tg, Tf, Tc, ...)**
TA Instrument - Q2000
- ❑ **F.T.I.R Analysis (Functional groups)**
Perkin Elmer - ATR Module
- ❑ **Brookfield Viscosimetry**
Brookfield RV viscosimeter - DV-I Prime

PROCESSING



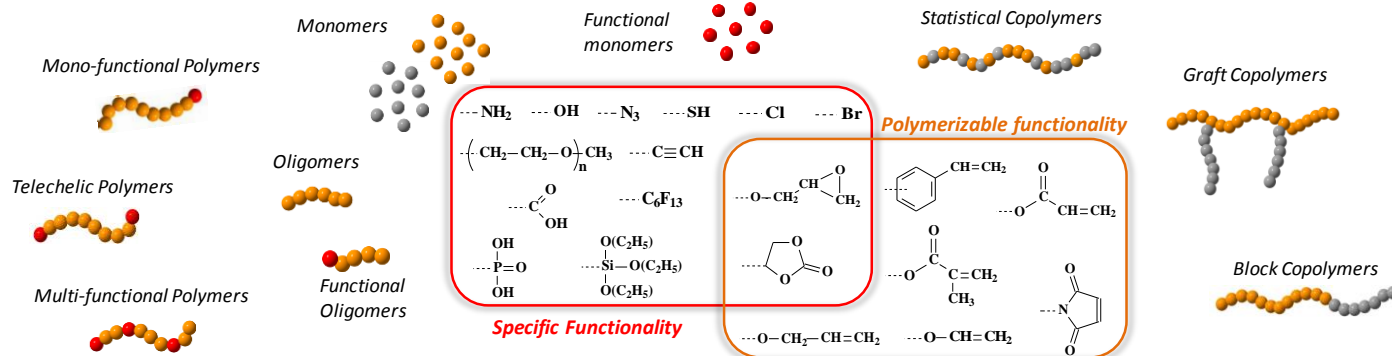
❑ **Spin-coating**

❑ **Bare-coating**



❑ **UV-Polymerization**

R&D ACTIVITIES



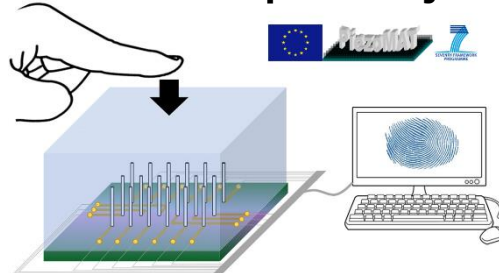
SPECIFIC POLYMERS is specialized in the synthesis of **highly specific monomers, polymers and materials**. Our innovative products are used for a wide range of applications (aeronautics, car industry, building industry, cosmetics, electronics, energy, environment, tires industry, pharmaceuticals, etc.).

ON-DEMAND SYNTHESIS & MATERIALS

SPECIFIC POLYMERS makes on-demand polymer and materials synthesis in any field of research. If you are willing to test a functional polymer or material based on **innovative ideas** or on **publications or patents**, do not hesitate to contact us, you can produce **from grams to kilograms** !

SPECIFIC POLYMERS – SENSORS AND OPTO-ELECTRONIC DEVICES

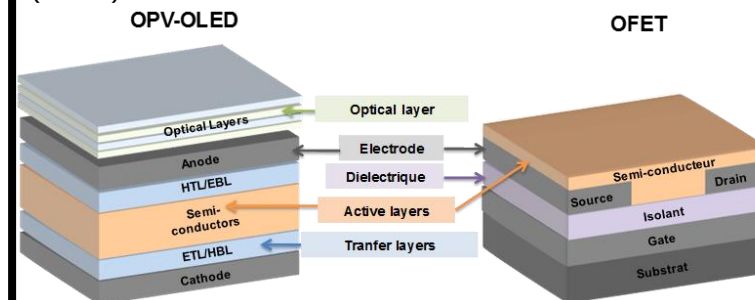
PiezoMAT European Project



SPECIFIC POLYMERS is developing encapsulation polymeric materials in multi-NWs pressure based fingerprint sensors. The sensing principle is based on the piezoelectric property of ZnO NWs. Since the finger pressure cannot be directly applied on the NWs, the deformation is applied through a polymeric material exhibiting specific properties. The polymeric material must be tough enough to protect the NWs from breaking but soft enough to allow NWs deformation and production of electric charges. Besides, it must combine other defined properties such as chemical inertness, surface properties such as hydrophoby and oleophoby or good compatibility with NWs and seed layers.

PiezoMAT workshop – Wednesday afternoon

Since 2013, SPECIFIC POLYMERS is working on **innovative materials for optoelectronic devices** such as Fingerprint sensors, Organic PhotoVoltaic (**OPV**), Organic Light-Emitting Diodes (**OLED**) or Organic Field Effect Transistor (**OFET**).



In such devices, SPECIFIC POLYMERS is developing innovative thin layer materials :

- **Low and high Refractive Index** thin layers
- **Hybrid materials** for electrodes,
- Insulating **dielectric** polymer materials
- Electron and hole **transporting layers**

All products are built up to answer customer specific request and to reach defined properties