

RECOMMENDATIONS

Recommendations to compounding and additive industries

Different blends and compounds showed various interests for the packaging applications tested in the project and should be commercially developed:

- **Blends with PLA** at low content for good compatibility bring a modulus increase and a decrease of migration for injected packaging;
- **Blends with talc** bring a modulus increase, a better control of crystallisation, and an increase of barrier properties;
- **Blends with soft polyesters** such as PBSA improve the film blowing extrudability.

The stabilization of PBS can be better controlled by the commercialization of appropriate grades:

- Stabilization to oxidation is only necessary for transformations at high temperature (injection above 190°C)
- Stabilization to hydrolysis is a key issue which has no efficient technical response in the current commercial offer of food contact additives.
- At least as no efficient stabilization is today possible by the formulation with an appropriate additive, the compounding operation could be used to correct the material quality : (i) ensure a low water content in the final product (ii) for some degraded grades, an increase of viscosity (spontaneous repairing) was sometimes observed after simple extrusion