



## PVC: Compounding and formulation

Despite of the bad reputation of PVC this plastic is almost essential, hundreds of applications are based in this material due to its high degree of modification. Understanding all the additives and fillers and how they act in the PVC matrix is mandatory to obtain compounds with good quality to fulfill customer requirements.

Mixing it properly selecting the right mixing device will complement the goodness of the formula. These technical concepts are linked with the current scenario where PVC additives can be banned and the introduction of recycled plastic, circular economy and how it can affect to new formulas and applications.

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### Objectives

- To identify the most appropriated resins for the different applications: Molecular weights, K-Value, mechanical properties etc..
- To understand how to modify properly rigid and plasticized PVC by additives or fillers addition. Thermal stabilization, impact modification, plasticization etc.
- To correlate formulations with final properties and how additives and fillers apply for the most typical final products.
- To understand the dry blending and compounding process of PVC: processing parameters, control process etc..
- To position the PVC in the current scenario of circular economy.

## Who is it aimed at?

- Staff of production departments of PVC formulation companies & recyclers
  - Staff of R&D department of PVC formulation companies & recyclers.
  - Staff of Quality control department of PVC formulation companies
  - Raw materials companies: additives, fillers, pigment suppliers
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## Programme

### PVC FORMULATION PRINCIPLES

- Types of PVC resins and their main characteristics
- PVC applications
- PVC additives. Mechanisms of action, dosages, and effects
- Fillers. Typical fillers for PVC
- Typical formulations in rigid and flexible PVC

### COMPOUNDING

- Dry blending
- Plasticorder evaluation
- Mixing equipment
- Control process
- Troubleshooting

### PVC and SUSTAINABILITY

- PVC recycling, challenges, and sources
  - PVC regulations and future perspective
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## Organized by:

