

## Business Case Polymerization

# HOW TO GET PERFECT RESIN QUALITY AND SECURE YOUR PROCESS

For Rolpin, the challenge is to secure and improve the performance of their polymerization process



## CHALLENGE

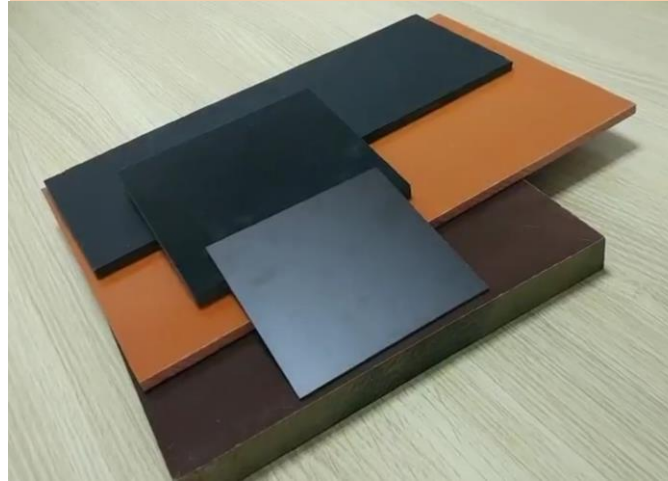
The eco-responsible French company ROLPIN manufactures quality plywood environmentally-friendly as well as phenolic resins, and impregnated papers.

Phenolic resin exhibits ideal product characteristics in terms of solidity and resistance; it also presents difficult production conditions regarding to its reaction process.

Among the parameters that are impacting the polymerization reaction, the heating process has clearly identified steps and has very sensitive temperature / viscosity values that require close monitoring. Should any discrepancy arise and the resin hardens, this results in an unusable product and damages to the pipes and reactors.

The heat-hardening properties of phenol resins are therefore the primary concern, as the manufacturing process is exothermic. Rolpin was looking for a solution to improve their process.

**From resin to  
phenolic paper laminate**



## SOLUTION

Sofraser's team directed Rolpin to try the MIVI, Sofraser's best seller that offers a real time viscometry management, and is the perfect solution for satisfying the sales stipulation: "satisfactory results must materialize in Rolpin's production".

The installation of one MIVI viscometer on the reactor provides the operators with continuous temperature and viscosity values.

**MIVI Viscometer  
key features:**

**high reliability  
Easy to install  
low maintenance**

## RESULT

---

Since the installation of the MIVI sensor, hardening issues stopped and production efficiency increased.

The fulfilment of the core objectives after the installation of the viscometer were immediately observed.

Secure and reliable, the installation has a more precise reaction control due to temperature correlation.

The benefits are also for the staff, less stressed due to the reduction of the hardening issue that are now avoided.

Thanks to Sofraser's cutting-edge technical expertise and local technical support, Rolpin achieved quick gains and improvements



### Mr. Inçargarat

Development and Technical Manager at Rolpin

---

“We immediately observed the fulfillment of our core objectives after the installation of the viscometer. In addition to stability and quality, production efficiency has increased. Thanks to the MIVI sensor, the unexpected hardenings that halted manufacturing no longer disrupt the process, and production / sales losses are minimized.”

**Efficient and  
secured  
production**

**Sofraser is highly  
reputed on:**

**Oil & Gas,  
Polymers & chemical,  
Coating,  
Food & beverage,  
Pharma & Biotech.**



## **CONTACT**

**Dr Philippe Burg**

**Email: [instruments@sofraser.com](mailto:instruments@sofraser.com)**

**Phone: +33 2 38 85 77 12**

**Website: [www.sofraser.com](http://www.sofraser.com)**

---

We are serving demanding leaders on their industries, at an international scale, with on-line, at-line, in-line and in-tank innovative solutions that provide a unparalleled user-friendly experience.