

# FINE Additives: Process benefits & Sustainability for Biopolymers



Plastics have been an integral part of our lives in numerous ways through the impressive functionalities offered and convenience of processing. This makes plastics a promising candidate for not only the current, but also for the future times. Furthermore, an additional requirement, which has gained remarkable importance is 'Sustainability'. Biopolymers can effectively introduce the advantages pertaining to the sustainability aspect either by being bio-based and/or bio-degradable. Various classes of biopolymers have been well-accepted in a wide range of applications by successfully overcoming the limitations in terms of processing and performance. However, there are a few potential susceptibilities of the base biopolymer to moisture and temperature could be a challenge in attaining the maximized benefits of biopolymers in the end-application.

FINE Additives can impressively support through suitable functionalities in the same by rendering improved melt-flow properties, process enhancement, effective end-properties such as - slip & anti-blocking properties, scratch resistance, effective mould release, and more.

## Key benefits of FINE Additives

- Vegetable origin based raw materials
- Bio-based and bio-degradable additives\*
- Suitable melt flow properties & Process enhancement
- Dispersion of fillers/pigments
- Superior surface – Reduced surface friction/ scratching

## Visual Observation

PLA sheets were prepared without and with a Bioplasticizer (at 10%).

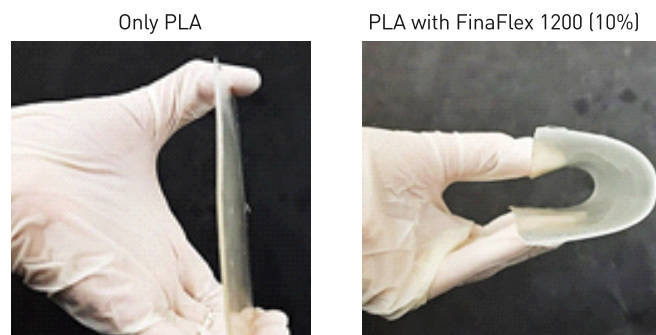


Figure: Bio-plasticizer offering flexibility to the base PLA polymer

## FINE additives\* & Functions

Products	Applications/functions
Finawax E	Slip additive, torque release, hydrophobicity to surface
Finawax S	Mould release additive , Denesting
Finawax B	Lubrication, Mould release additive, Denesting
Finastat 5000	Antistat for films/ injection moulded products
FinaSpurse DT 500 N	Wetting & dispersing additive
FinaFlex 1200	Green plasticizer
Finalux ACS	Antiscratch, De-nesting, Mould release
FinaFog 500	Antifog for films/sheets
FinaGuard AM	Antibacterial, resistance to fungal growth
Finalux AEH	Organic Clarifier for biopolymers

\*FINE Additives are majorly bio-based and biodegradable. More information can be shared upon request.

## FINE Additives support to maximize your benefits by offering excellent functionalities and managing the challenges in processing!

For Further technical assistance, Please contact our Technical Services Department | Email : [info@fineorganics.com](mailto:info@fineorganics.com)

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