

# Solvent-Soluble Polylactic Acid (PLA) Resins

## PLA-R-001F-SOR • PLA-R-001FL

- Amorphous polylactic acid (PLA) resins manufactured using our polymerization technology.
- Soluble in organic solvents such as aromatics, esters, and ketones.
- These resins are **100% biomass-derived polymers** and are **biodegradable** under defined composting conditions.
- Applications: inks, paints, plasticizers, modifiers, adhesives, emulsions, primers, and resin binders.



Solution appearance (resin content 40%)  
※Supply form: Solid resin

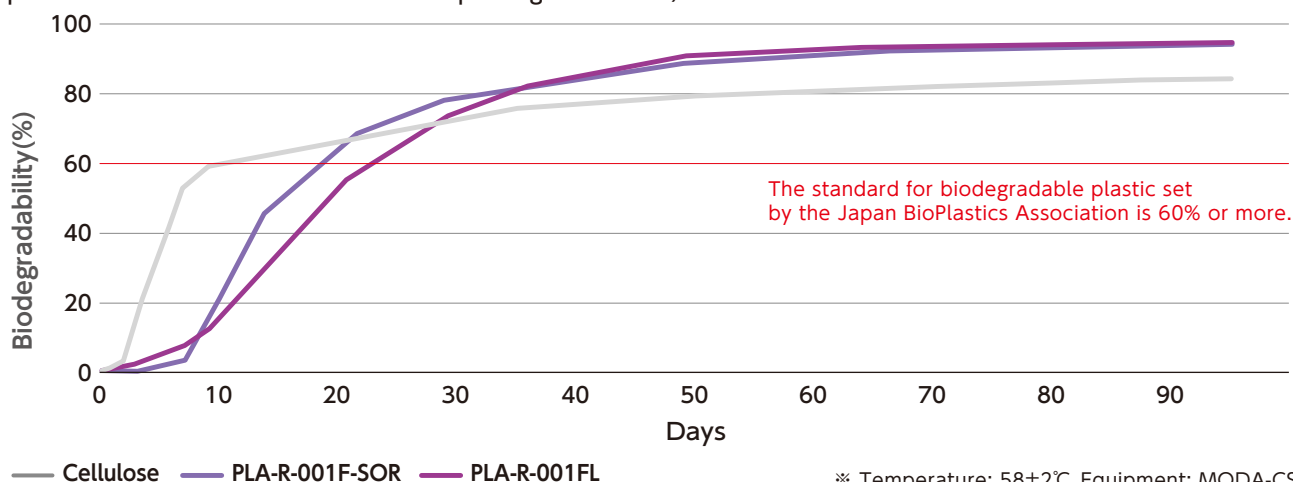
## General properties

		PLA-R-001F-SOR	PLA-R-001FL
Form		Solid resin (light yellow)	Solid resin (light yellow)
Tg		About 57°C	About 52°C
Molecular weight (Mw)		About 100,000	About 20,000
Solubility (Resin content: 40%)	Toluene	Good	Good
	Ethyl acetate	Good	Good
	Methyl ethyl ketone	Good	Good
Characteristics		High molecular weight	Low molecular weight

※ Dissolving conditions: Stirring at 40°C for 2 hours

## Biodegradability evaluation

(JIS K6953-2 (ISO 14855-2), Determination of the ultimate aerobic biodegradability of plastic materials under controlled composting conditions)



Contact for Solvent-Soluble Polylactic Acid (PLA) Resin  
**Nagase Industries, Ltd.**  
<https://www.nagase.com/jp/ja/products/biomass-monomer-polymer>

Please include "Solvent-Soluble Polylactic Acid (PLA) Resin" in your inquiry.

