

# Eco-Solutions GP3002

Polylactic Acid  
Minima Technology Co., Ltd.

## Message:

**Description**  
Eco Solution GP3002 is a PLA (polylactide) based Aliphatic Polyester, and is certified as a biodegradable resin and meet ASTM D6400, EN13432. The processibility and toughness are greatly improved and thus can be leaded in blowing machine readily. A new tougher additive specially developed for bio-based and biodegradable packaging.

GP3002, which toughens PLA packaging materials while maintaining compliance with food contact requirements in the U.S. Providing toughness with only minimal reduction in package clarity, this grade is said to allow food marketers to take better advantage of environmentally preferred solutions in packages such as clamshells used in fresh produce sections.

**Applications**  
Outstanding side sealing and end sealing performance  
High quality films for automatic packing process  
Blowing molding for bottles  
Translucent bags, bakery bags, envelope bags  
PLA toughner  
High quality film for lamination

General Information			
Features	Comstable		
	Good toughness		
	Biodegradable		
	Compliance of Food Exposure		
	aliphatic		
Uses	Films		
	Laminate		
	Bags		
	Bottle		
	Food packaging		
Agency Ratings	ASTM D 6400		
	EN 13432		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5 - 5.6	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
MD	965	MPa	ASTM D882
TD	480	MPa	ASTM D882

Tensile Strength			
MD: Yield	28.4	MPa	ASTM D882
TD: Yield	22.8	MPa	ASTM D882
MD: Fracture	47.9	MPa	JIS K6781
TD: Fracture	32.5	MPa	JIS K6781
Tensile Elongation			ASTM D882
MD: Fracture	220	%	ASTM D882
TD: Fracture	470	%	ASTM D882
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	103	°C	ASTM D1525
Melting Temperature	110	°C	

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