

REVODE 101

Polylactic Acid

Zhejiang Hisun Biomaterials Co.,Ltd

Message:

Hisun Biomaterials PLA polymer REVODE101 is a thermoplastic resin derived from annually renewable resources and is specifically designed for sheet extrusion applications.

Many products can be produced from REVODE101, and the application field of this resin is extended gradually. Suitable products including: cold drink cup, fruit container, salad plate, fruit plate, egg tray, electronics tray, IC card, cup lid or cake lid and etc.

General Information			
Features	Updatable resources		
Uses	Cup		
	Cover		
	Food container		
	Beverage lid		
	Bracket tray		
	Table products		
Processing Method	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20 - 1.30	g/cm³	Internal method
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 - 10	g/10 min	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	> 50.0	MPa	Internal method
Tensile Strain (Break)	> 3.0	%	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	3.0 - 5.0	kJ/m²	Internal method
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	56.0 - 60.0	°C	Internal method
Melting Temperature	140 - 155	°C	Internal method
Extrusion	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	2.0 - 3.0	hr	
Hopper Temperature	20.0 - 40.0	°C	
Cylinder Zone 1 Temp.	180 - 200	°C	
Cylinder Zone 2 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	180 - 200	°C	
Cylinder Zone 4 Temp.	180 - 200	°C	
Cylinder Zone 5 Temp.	180 - 190	°C	
Die Temperature	180 - 190	°C	

Take-Off Roll	25.0 - 45.0	°C
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Extrusion instructions

Air Dew Point: -40°C to 42°C Air Flow Rate: > 1.85 m³/hr-kg resin Feed Throat: 20 to 40°C Maximum Regrind: 35% L/D Ratio: 24:1 to 32:1

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WECHAT