

# NEXUS BIO BIO-200

Biodegradable Polymers

Nexus Resin Group, LLC.

Message:

Injection Grade Biodegradable Starch Resin

Nexus BIO-200 are granules in light yellow and come in cylindrical and round shape with slight fragrance. They absorb moisture easily and are easily decomposed by microbes. They are anti-static. The processing temperature of the granules is lower than that of conventional plastic. They are easily colored. Such resin can be processed into finished products alone without adding any other polyolefin materials like PE, PP, PVA, PVA, EVA, etc. Applications include being directly molded into finished products. Its melt flow rate is high. It is suitable to make all kinds of containers, like plant nursery pots and bowls, soya bean curd trays, agricultural pesticide bottles, shampoo and shower gel bottles, straws, toys, packaging boxes, and all sorts of disposable containers.

General Information			
Features	Antistatic		
	Biodegradable		
	Good Colorability		
	High Flow		
Uses	Agricultural Chemicals Bottles		
	Bottles		
	Containers		
	Drinking Straws		
	Lawn and Garden Equipment		
	Toys		
Appearance	Yellow		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.980 to 1.10	g/cm <sup>3</sup>	Internal Method
Melt Mass-Flow Rate (MFR)	2.0 to 5.0	g/10 min	Internal Method
Moisture Content	0.30 to 1.2	%	Internal Method
Biobased Content	> 70	%	Internal Method
Degradation Rate - in 100 days	> 46	%	ISO 14855:2000
Hexane Extraction	< 4.0	%	Internal Method
Thermal Shrinkage	< 2.0	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	50		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	> 20.0	MPa	Internal Method
Tensile Elongation (Break)	> 50	%	Internal Method
Flexural Modulus	1240	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	20	kJ/m <sup>2</sup>	Internal Method
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	> 85.0	°C	Internal Method

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#### Recommended distributors for this material

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