

NEXUS BIO BIO-110

Biodegradable Polymers

Nexus Resin Group, LLC.

Message:

Film Blowing Grade Starch Based Compostable Resin

The granules are in light yellow, with slight starch fragrance, they easily absorb moisture and are easily decomposed by microbes within 90 days, are anti-static, and easily colored. The granules come in a cylindrical or round shape. The processing temperature is lower than that of conventional plastic; such granules can be directly processed into finished products without adding any other polyolefin materials like PE, PP, PS, PVC, etc.

Applications include compostable packing film and compostable bags, including shopping bags, garbage bags, pet waste bags, electronic products packing bags, etc.

Product certifications are:

European Certificate EN13432

USA Certificate ASTM D6400

General Information			
Features	Antistatic		
	Biodegradable		
	Compostable		
	Good Colorability		
	Renewable Resource Content		
Uses	Bags		
	Film		
	Packaging		
Agency Ratings	ASTM D 6400		
	EN 13432		
Appearance	Yellow		
Forms	Granules		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	1.15 to 1.30	g/cm ³	Internal Method
Melt Mass-Flow Rate (MFR)	2.0 to 5.0	g/10 min	Internal Method
Moisture Content	0.50 to 1.0	%	Internal Method
Biobased Content	> 98	%	Internal Method
Degradation Rate - in 100 days ¹	> 99	%	
Hexane Extraction	< 4.0	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	> 15.0	MPa	Internal Method
Tensile Elongation (Break)	> 350	%	Internal Method
Flexural Modulus	1240	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	> 70.0	°C	Internal Method
NOTE			

1. ASTM D6400/EN13432

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

