Natur-Tec® BF3001J

Biodegradable Polymers

Natur-Tec - Northern Technologies International Corp

Message:

Natur-Tec® BF3001J is a 100% biobased and biodegradable polymer resin compound designed to replace conventional plastic materials for extrusion coating applications. Natur-Tec® BF3001J is manufactured using sustainable and renewable resources, per the ASTM D6866 standard, which allows industry and consumers the opportunity to reduce or neutralize their carbon footprint. Natur-Tec® resins are engineered for high performance and can easily be processed on conventional manufacturing equipment while offering energy savings due to much lower processing temperatures. The BF3001J is designed to meet the requirements of international standards for compostable plastics such as ASTM D6400 (U.S.). Natur-Tec® extrusion coating resins provide good adhesion to paper, an excellent print surface and good heat seal strength. This coating material is suitable for food contact applications including both hot and cold applications. Please refer to the Material Safety Data Sheet and the Processing Guide for specific handling and processing instructions.
Natur-Tec® BF3001J can be used for coating paper and paperboards for the manufacture of disposable cups, plates and other food service ware items.

General Information			
Features	Excellent printability Comstable Updatable resources Good heat sealability Good flexibility Good adhesion Biodegradable		
Uses	Bags Food service sector Coating application Consumer goods application field Disposable wine set		
Agency Ratings	ASTM D 6400		
Processing Method	Extrusion coating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.36	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.1	g/10 min	ASTM D1238
Thickness - Paper board	230	g/m²	Internal method
Peel Strength	1.10	kgf/25 mm	ASTM D903
Coating Thickness	30.0	g/m²	Internal method
Renewable Content - (Bio)	100	%	ASTM D6866
Resistance to Grease, Fats, and Oils [1]	> 12.0		Internal method
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D882
MD: Yield, 25 µm	12.2	MPa	ASTM D882

TD: Yield, 25 µm	10.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	6.0	%	ASTM D882
TD: Broken, 25 µm, blown film	6.8	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	26	g	ASTM D1922
TD : 25 µm	24	g	ASTM D1922
Water Vapor Transmission Rate	1.3	g·mm/m^2/atm/24 hr	ASTM E398-03
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	66.5	°C	ASTM D1525
Additional Information	Nominal Value	Unit	Test Method
Cobb Test: .2 gm/m^2 using TAPPI T441 om-90 (2 Min)			
NOTE			
1.	3M test kit, Tappi 559 cm-02		

Recommended distributors for this material

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