BF2001 Resin

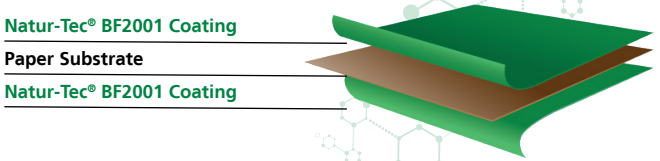
Extrusion Coating Grade

Product Description

Natur-Tec® BF2001 is a biobased and compostable polymer resin compound designed to replace conventional plastic materials for extrusion coating applications. Natur-Tec® BF2001 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 BF2001 is designed to meet the requirements of international standards for compostable plastics such as ASTM D6400 (U.S.).

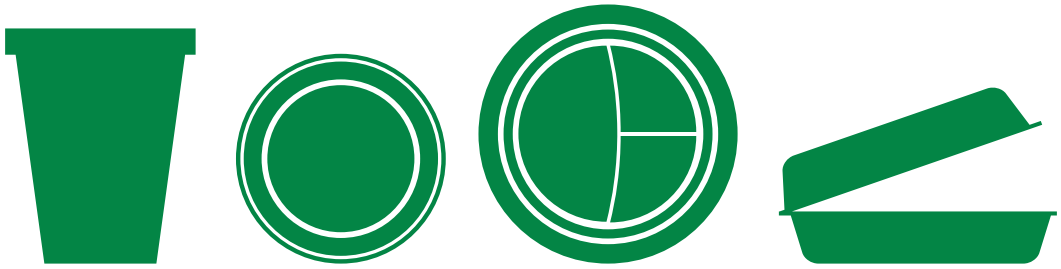
Product Features

- Provides excellent adhesion to paper
- Offers an exceptional print surface with good heat seal strength
- Can be coated at lower coating thicknesses of 25 gm (20 microns)
- Excellent processing performance on cup making machines used for LDPE coated board
- Proven on both thermal and high speed ultrasonic sealing machines
- Suitable for food contact including hot and cold applications
- Compostable and made with up to 83% biobased content



Applications

Natur-Tec® BF2001 can be used for coating paper substrates for the manufacture of disposable cups, plates, and other food service ware items.



Food Contact

Natur-Tec® BF2001 resin is compliant with food contact regulations (EC) 1935/2004, (EU) 10/2011, and its amendments through (EU) 2019/37.

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BF2001 Technical Data			
Resin Properties			
Property	Unit	Test Method	Value
Specific Gravity	gm/cm^3	ATSM D792	1.27
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	4 to 8
Renewable (Bio) Content	%	ASTM D6866	up to 83%
Melting Point	°C	Internal (DSC)	160
Coated Paper Properties			
Paper Board Thickness	gsm	Internal	220
Coating Thickness	gsm	Internal	23 to 25
Peel Strength	gf/in	ASTM D903	370
Seal Strength (1 bar | 1 sec)	gf	ASTM F88-15	500 (fiber tear)
	Seal Initiation (°C)	Internal	120°C
	Seal Window (°C)	Internal	120°C - 200°C
Water Vapor Transmission Rate (WVTR)	gm/m^2 per day	ASTM F1249-01	274
Oxygen Transmission Rate (OTR)	cc/m^2 per day	ASTM D3985-02	2985
Grease Resistance	3M Kit test	TAPPI UM 557	12+
Cobb Test (2 min)	gm/m^2	TAPPI T441 0M-90	0.3

Note: The property values listed above are calculated under standard temperature and humidity conditions. These property values should be viewed as guidelines only, and may vary based on processing conditions. No warranties of any kind, either expressed or implied are made regarding products described or regarding designs, data or information set forth.

Storage and Handling: *For optimum performance and product life, store in a cool dry place out of direct sunlight. Refer to the Safety Data Sheet and the Processing Guide for specific handling and processing instructions.*

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