Technical Data Sheet
BF3001J (old: BM382TJ)
Extrusion Coating Grade

Product Description

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.

Applications

Natur-Tec® BF3001J can be used for coating paper and paperboards for the manufacture of disposable cups, plates and other food service ware items.

Properties

Resin Properties			
Property	**Unit**	**Test Method**	**Value**
Specific Gravity	gm/cm^3	ASTM D792	1.36
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	4.13
Renewable (Bio) Content	%	ASTM D6866	100
Vicat softening point	°C	ASTM D1525	66.5
Coated Paper Properties			
Paper board thickness	gsm	internal	230
Coating thickness	gsm	internal	30
Peel Strength	Kgf/25mm width	ASTM D903	1.1
Water Vapor Transmission Rate (WVTR)	$gm/100in^2.day$	ASTM E398-03	3.38
Grease Resistance	3M Kit test	TAPPI T 559 cm-02	12+
Cobb Test (2 min)	gm/m^2	TAPPI T441 om-90	0.2
Film Properties (1 mil)			
Tensile Strength	MPa	ASTM D882	12.2(MD)/10.6 (TD)
Elongation	%	ASTM D882	6(MD)/6.8(TD)
Elmendorf Tear Strength	gf/micron	ASTM D1922	26(MD)/24(TD)

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.

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