



Technical Data Sheet BF3001J (old: BM382TJ)

Extrusion Coating Grade

技术数据表BF3001J（旧版：BM382TJ）

挤压涂层

Product Description 产品描述

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是一种100%生物基和可生物降解的聚合树脂化合物，旨在取代传统塑料材料以用于挤压涂层应用。Natur-Tec®BF3001J采用可持续和可再生的材料制造，符合ASTM D6866标准，使得行业及消费者有机会减少或中和其碳足迹。Natur-Tec®树脂设计的宗旨是高性能，可在传统制造设备上轻松加工，同时由于加工所需温度大幅降低，所以可节省大量能源。BF3001J的设计符合国际可堆肥塑料标准的要求，如ASTM D6400（美国）。Natur-Tec®挤压涂层树脂具有良好的纸张附着力、优异的印刷表面性能和良好的热封强度。该涂层材料亦适用于与食品直接接触的应用领域，包括热应用和冷应用。具体操作和加工说明请参阅材料安全数据表和加工指南。

Applications 应用

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

Natur-Tec®BF3001J可用于纸和纸板的图层，以制造一次性杯子、盘子和其他食品用具。

Properties 性质

Resin Properties 树脂性质

Property性质	Unit单位	Test Method测试方法	Value值
Specific Gravity比重	gm/cm ³	ASTM D792	1.36
Melt Flow Rate MFR 190°C, 2.16 kg 熔体流动速率 190°C, 2.16 kg	gm/10 min	ASTM D1238	4.13
Renewable (Bio) Content 可再生（生物）物质含量	%	ASTM D6866	100
Vicat softening point 维卡软化点	°C	ASTM D1525	66.5

Coated Paper Properties

涂布纸性能

Paper board thickness纸板厚度	gsm	Internal内部方法	230
Coating thickness涂层厚度	gsm	Internal内部方法	30
Peel Strength剥离强度	Kgf/25mm width	ASTM D903	1.1

Water Vapor Transmission Rate (WVTR) 水汽透过率 (WVTR)	gm/100in ² .day	ASTM E398-03	3.38
Grease Resistance耐油脂性	3M Kit test	TAPPI T 559 cm-02	12+
Cobb Test (2 min) 柯布试验 (2分钟)	gm/m ²	TAPPI T441 om-90	0.2
Film Properties (1 mil) 薄膜性能 (1 mil)			
Tensile Strength抗张强度	MPa	ASTM D882	12.2(MD)/10.6 (TD)
Elongation延伸率	%	ASTM D882	6(MD)/6.8(TD)
Elmendorf Tear Strength埃尔门多夫撕裂强度	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.

注意：

上述属性值是在标准温度和湿度条件下计算的。这些属性值应仅视为参考标准，并可能根据处理条件而有所不同。对于所描述的产品或所述的设计、数据或信息，不作任何形式的明示或默示保证。