

Material Processability

- Natur-Tec resins are easily processable on standard film extrusion equipment.
- Films made with Natur-Tec resins have naturally high dyne and do not need corona treatment.
- Natur-Tec resins do not contain any starch that can cause the printing ink to smudge. They provide excellent printability.
- Patented Natur-Tec resins provide a 10% higher yield of bags compared to competitive compostable resins.



Certifications

- Meets ASTM D6400, EN 13432 and ISO 17088 Standard Specifications for Compostable Plastics.
- Does NOT Contain Any Polyethylene or Other Conventional Plastics.



Natur-Tec®

Sustainable Biobased Materials



BF703B
Extrusion Film Resin Compound



Natur-Tec® BF703B is a fully biodegradable/compostable biopolymer resin designed specifically for flexible film applications. Natur-Tec resins are fully certified to the stringent requirements of international standards for compostable plastics, such as ASTM D6400, EN 13432 and ISO 17088, and therefore provide an environmentally friendly alternative to conventional plastics.

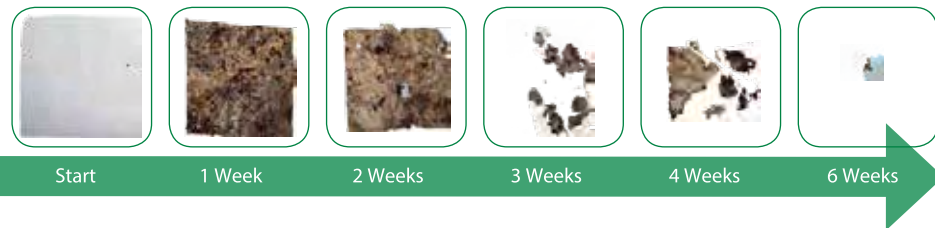
The Natur-Tec BF703B resin is engineered for high performance and can be easily processed on standard extrusion equipment. Natur-Tec films are strong and tough with excellent heat seal strength, and provide excellent printability. For applications where high barrier properties are required, Natur-Tec films can be easily combined with other substrates in a laminate structure to achieve the desired properties.

Applications

- Compostable Trash/Garbage Bags
- Carry-out Bags
- Agricultural Mulch Film
- Films for Food Service and Consumer Packaging
- Heat sealant layer for Laminate Packaging structures



Natur-Tec® BF703B Film in a Composting Environment



Physical Properties

Property	Unit	Test Method	Value
Specific Gravity	gm/cm ³	ASTM D792	1.35 (resin)
Melt Flow Rate MFR 190°C, 2.16 kg	gm/10 min	ASTM D1238	3 – 6
Melting Point	°C	ASTM D3418	110 – 120

Mechanical Properties *

Property	Unit	Test Method	Value
Tensile Strength (MD)	MPa	ASTM D882	25
Tensile Strength (TD)	MPa	ASTM D882	23
Elongation (MD)	%	ASTM D882	430
Elongation (TD)	%	ASTM D882	570
Dart Impact	gm	ASTM D1709	150

* Typical Properties of freshly blown 25 micrometer thick film

Transmission Properties *

Property	Unit	Test Method	Value
Oxygen Transmission Rate (OTR)	cc-mil/m ² /day/ bar	ASTM D3985	1090
Water Vapor Transmission Rate (WVTR)	g-mil/m ² /day	ASTM E398-03	370

* Typical Properties of freshly blown 25 micrometer thick film

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.