

BF3002HT Resin

Injection Molding Grade

Product Description

The Natur-Tec® BF3002HT is a biobased and compostable impact-modified, nucleating resin compound intended for injection molding. Natur-Tec® BF3002HT meets the requirements of international standards for compostable plastics such as ASTM D6400 (U.S.), EN 13432, and ISO 17088.

Product Features

- Engineered for applications where high-heat performance and/or dimensional stability are critical such as cutlery, coffee capsules, and stirrers
- Contains up to 95% bio content per ASTM D6866 and EN 16785 standards
- A two-part blend that consists of the Natur-Tec® BM3002HT and a specific Ingeo™ or Luminy® neat grade PLA. It can in most cases be co-injected with a barrier resin for applications such as coffee capsules
- Molded in a two-step economical process where parts are crystallized in a secondary oven. Recommended for flat-part profiles to reduce warpage in oven
- Resin going through two heat histories is limited to the percent (%) masterbatch letdown (typically 25-50%) which helps maintain the molecular weight, resulting in improved mechanical strength for the final part as compared to a part manufactured with 100% fully compounded resin

Applications

BF3002HT can be used for injection molded plastic applications requiring high heat performance such as cutlery and stir sticks.



Food Contact

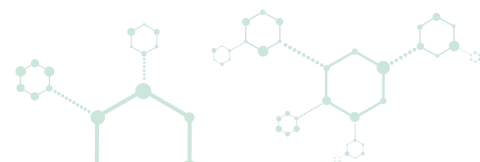
Natur-Tec® BF3002HT is compliant with both US FDA regulations and food contact regulations (EC) 1935/2004, (EU) 10/2011, and its amendments through (EU) 2019/37.

Certifications



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BF3002HT Technical Data			
Physical Properties			BF3002HT
Property	Unit	Test Method	Value
Specific Gravity	g/cm ³	ASTM D792	1.4-1.5
Melt Flow Rate (190 °C with 2.16 kg)	g/10 min	ASTM D1238	5-8
Mold Shrinkage	%	ASTM D955	Perpendicular to Flow: < 0.1 Parallel to Flow: 0.2 – 0.3
Mechanical Properties			BF3002HT
Property	Unit	Test Method	Value
Tensile Strength at Break	MPa	ASTM D638	64
Tensile Elongation at Break	%	ASTM D638	7
Tensile Modulus	MPa	ASTM D638	2629
Flexural Modulus	MPa	ASTM D790	7436
Notched Izod Impact Strength	J/m	ASTM D256	34.8
Thermal Properties			BF3002HT
Property	Unit	Test Method	Value
Heat Deflection Temperature (Un-annealed)	°C	ASTM D648 (0.455 MPa)	60
Heat Deflection Temperature (Annealed)	°C	ASTM D648 (0.455 MPa)	125
Data obtained from standard annealed test bars molded with 50/50 blend of Natur-Tec® BM3002HT masterbatch and Ingeo™ 3001D			

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.

