

Product Description

Natur-Tec® Bio-Foam: BC100 is a biodegradable, closed cell foam material that provides excellent impact absorption for parts and components during shipment and storage. Natur-Tec® Bio-Foam: BC100 is safe, non-toxic, water-soluble and a fully biodegradable polymer material. Natur-Tec® Bio-Foam: BC100 meets the requirements of international standards for compostable products such as ASTM D6400 (U.S.). Natur-Tec® Bio-Foam: BC100 provides an environmentally-responsible alternative to synthetic foam materials without sacrificing performance.

Applications

Natur-Tec® Bio-Foam: BC100 is a strong all-purpose packaging material and is ideal when used to pack fragile items and protruding edges and corners during transit. Natur-Tec® Bio-Foam: BC100 is lightweight, resilient and has a high resistance to temperature fluctuations. Packaging applications would include automotive parts, electronic components, medical products and any other high-value cargo.

Properties

Physical Data

Appearance	Natural Color, foam sheet material
Odor	None to mild starch odor
Water Solubility	Water soluble, readily biodegradable and assimilated by soil microorganisms as food
Shelf Life	Estimated shelf life of 2 years if stored in the original packaging at 85°F (30°C) or less
Stability	This product is stable under normal storage and shipping conditions. Store in a cool, dry area away from moisture, excessive heat and sources of ignition
Disposal Method	Compostable, biodegradable in landfill (consult federal, state and local regulations)

Performance Characteristics

Property	Unit	Test Method	Result
Density	lb/ft ³ (kg/m ³)	ASTM D3575 (sec 43)	2.3 – 4.8 (37 – 77)
Compressive Creep	%	ASTM D3575 (24 hr test)	7% at 1 psi
Compressive Set	%	ASTM D3575	4.1% at 0.5 psi 7% at 1 psi
Cell Structure	-	ESEM	Closed
Cell Size	µm	ESEM	200 – 500
Electrostatic	ohms	EOS/ESD-S11.11-1993	10 ⁹ - 10 ¹⁰
Flammability	% mass remaining	-	99.5%
Buoyancy	lb/ft	ASTM D3575	Dissolves
R-Value/Inch	(hr - ft ² - °F) / BTU-in	Internal Method	2.6 – 3.8

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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