

Biobased Compostable Bio-Foam

Natur-Tec®

Sustainable Biobased Materials

Natur-Tec® provides the only biobased and compostable foam product available today. Bio-Foam is made from non-genetically modified cornstarch, and offers up to an 80% reduction in CO₂ and requires up to 70% less energy to be produced than petroleum based materials. It provides excellent industrial packaging properties and insulative qualities. Since Bio-Foam is anti-static and insulative it is ideal for uses from electronics packaging to medical coolers.

Features:

- 100% Biodegradable & Compostable*
- Environmentally friendly, sustainable packaging material
- Strong, flexible & lightweight
- Anti-static & moisture absorbing
- High resistance to temperature fluctuations - ideal for insulative packaging
- Provides superior impact absorption for parts and components
- Safe, non-toxic and water-soluble
- Meets ASTM D6400 standard specifications for compostability

*Natur-Tec® Bio-Foam products are intended to be composted in a professionally managed municipal or commercial facility operated in accordance with best composting management practices.



Bio-Foam Competitive Comparison

| Properties | Bio-Foam | PE Foam | PUR Foam | EPS |
|-----------------------------|-----------------------|----------------|---------------------|--------------------------------------|
| Insulation | standard | poor | good | standard |
| Cushioning | standard | standard | good | good |
| Bio-content | 100% | 0 | 0 | 0 |
| Anti-static (AS) Properties | Naturally anti-static | AS agent added | AS agent added | AS agent added |
| Blowing agent | Water | HC/HCFC | HCFC/N ₂ | NCFC/CO ₂ /N ₂ |
| Process | Extrusion | Extrusion | Reactive Extrusion | Injection Molding |
| Cost | ++ | ++ | ++++ | + |



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Bio-Foam Products:



Natur-Tec® Bio-Foam Sheets

- Closed-cell foam, available in 2.3-4.8 lb. densities
- Corrugated design optimizes cushioning and stabilizes cargo
- Available in 1/4" to 1/2" laminates up to 3" depth
- Width of 24" and lengths of 48", 54", 60" or 72"



Natur-Tec® Bio-Foam Wrap

- Soft enough for Class "A" surfaces
- Available in 1/8" depth
- Width of 24" and lengths of 48", 54", 60" or 72"



Natur-Tec® Bio-Foam Paper

- Surprisingly strong & smooth
- Available in 1/40" depth
- Width of 24" and lengths of 48", 54", 60" or 72"



Natur-Tec® Bio-Foam Water Resistant Sheets

- Soft enough for Class "A" surfaces
- Moisture & humidity resistant without sacrificing biodegradability
- Available in 1/8" depth
- Width of 24" and lengths of 48", 54", 60" or 72"

Physical Data:

| | |
|------------------|---|
| Appearance | Natural color, foam sheet material |
| Odor | None to mild starch odor |
| Water Solubility | Water soluble, readily biodegradable & 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 | Ideal disposal method is to compost in a professionally managed municipal or commercial facility. Alternatively, foam may be disposed in a landfill or incinerated (consult federal, state and local regulations) |

Ordering Information:
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