

*The German  
spirit of quality  
since 1854*

Distributed By –  
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# Bio-glitter<sup>®</sup>

Sustainability,  
Compostability & Biodegradability

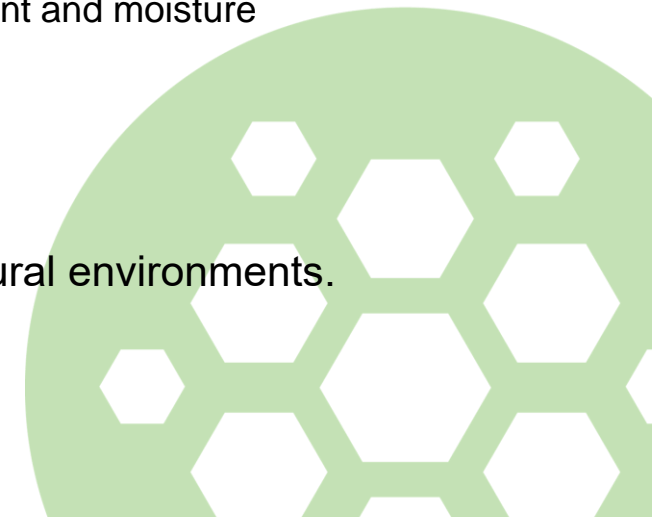


# Sustainability, Composting & Biodegradability

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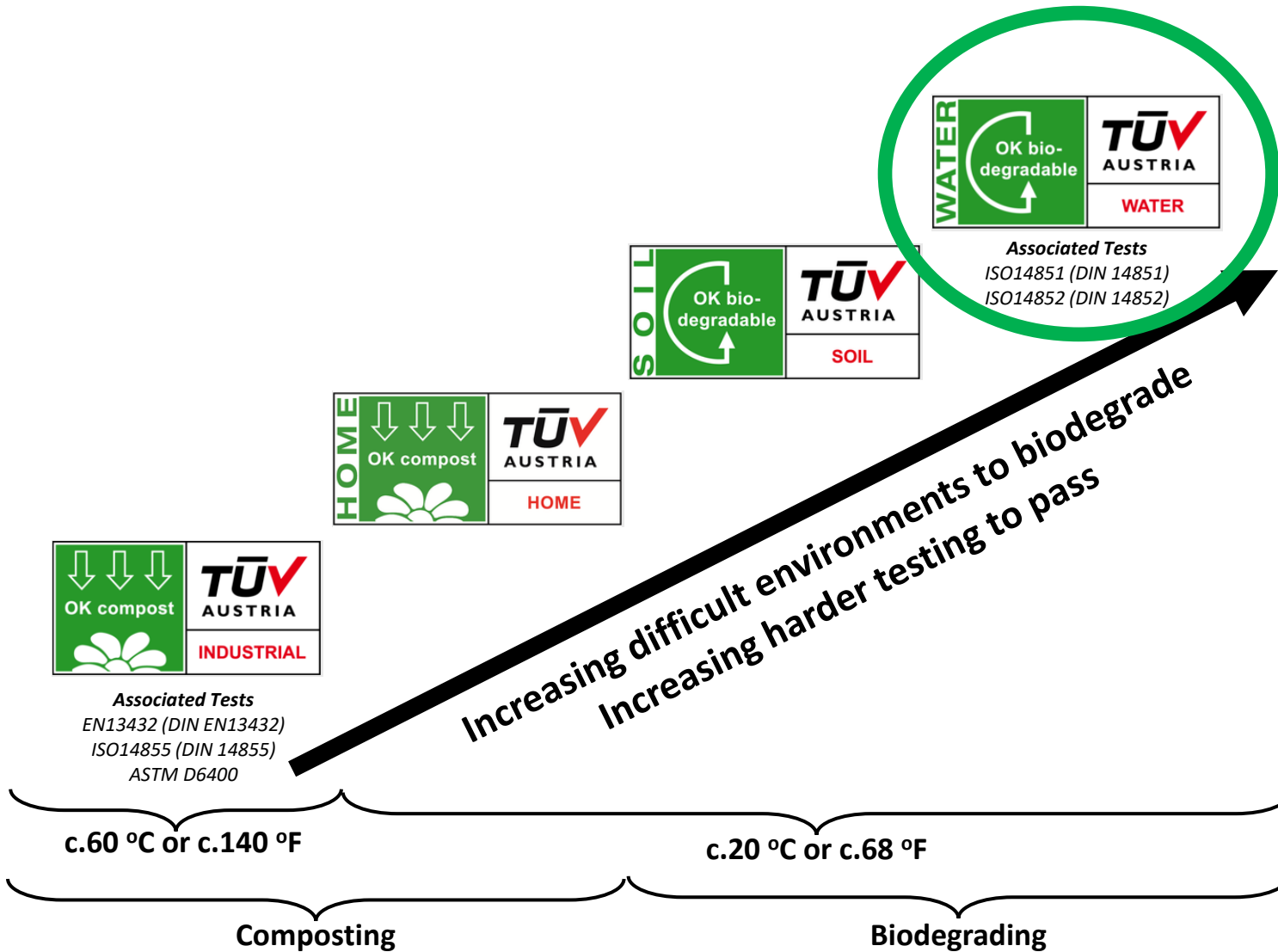


- **‘Sustainability’, ‘Composability & Biodegradability’ – Different things.**
  - ‘Sustainability’ – About the source of the raw materials used to make a product.
  - ‘Composability’ & ‘Biodegradability’ – About the characteristics of a product to breakdown in different environments.
- **‘Compostability’ & ‘Biodegradability’**
  - Both rely on microbes processing polymers to carbon dioxide, water and biomass
    - Needs warmth and moisture for microbes to be active.
    - Too cold or too dry and microbe activity slows down (we freeze and desiccate food to extend shelf life).
    - No microbes, no composting or biodegrading.
  - Compostability – how a product degrades in a manmade composting environment.
    - Industrial Composting – designed to optimize composting conditions; heat, microbe content and moisture
    - Home Composting – compost heap in back yard.
  - Biodegradability – how a product degrades in natural environments.
    - Soil... Fresh water etc
  - Common compostable polymers – PLA, Cellulose Acetate, don’t biodegrade in natural environments.
  - Compostable polymers are considered microplastic in EU microplastic legislation.



# Composting & Biodegradability

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## Fresh Water Biodegradability

- The level at which Bioglitter® products operate.
- A similar level of performance is needed to be EU Microplastic Legislation Compliant... OECD301 test pass of both the glitter and individually each polymer contained within the glitter are needed to be FULLY compliant.