



Redesigning plastics. For good.

THE “OK BIODEGRADABLE SOIL” POLYMER SOLUTION FOR TECHNICAL APPLICATIONS

Plantura

Overcoming the non intentionnaly released plastic challenge

Polymer materials are used in various applications, from disposable to durable. Plastic products that are used outside need waste management action: collecting this plastics waste is the best way to avoid any environmental spread.

This is possible if such products are immediately collected at their end of life. In some cases, however, some particles and fragments may be released without scope for collection.

In such cases the challenge is to ensure the disappearance of these fragments without harm to the environment.

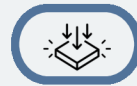
Applications

- ✓ Agriculture & Horticulture
- ✓ Gardening
- ✓ Outdoor goods
- ✓ Construction
- ✓ Funeral goods
- ✓ Sport and leisure



Approved soil compost

Plantura AT803HC-N grade has been designed to achieve soil degradability and is fully TUV certified.



Excellent properties

Plantura's thermomechanical behaviour opens the door to replace fossil fuel based polymers such as LDPE, HDPE and PP.



Environmentally safe

Fast-acting degradability is insufficient. Ecotoxicity is another challenge that this Plantura compound has overcome with flying colours.

The Plantura AT803HC-N solution

Benvic R&D has combined thermomechanical performance and soil biodegradability in the chemistry of this compound.

The material is designed to achieve complete disintegration within 24 months maximum - with no ecotoxicity.

Furthermore, Benvic has ensured that product designers may design technical parts in Plantura AT803HC-N without any fear of substandard processability or performance.



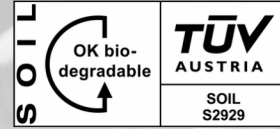
www.benvic.com

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TECHNICAL DATA

AT803HC-N

OK biodegradable SOIL polymer compound



Physical data

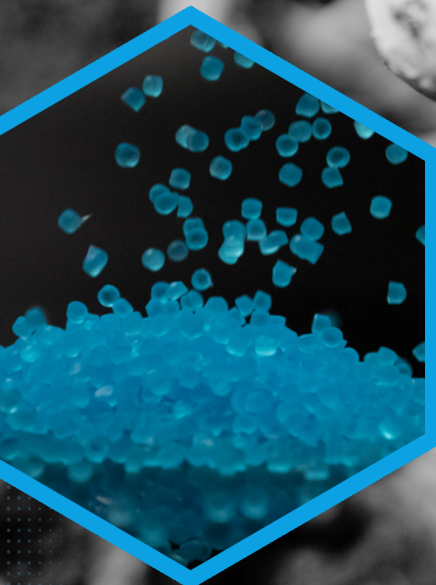
Density	1.46 Kg/m ³
HDT Method B	96°C

Rheological data

MFI 220°C/21.6kg	65
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Mechanical data

Tensile modulus	1000 MPa
Flexural modulus	900 MPa
Stress at yield	22 MPa
Elongation at break	50%



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BENVIC innovates every day - enabling every customer to develop new products that meet the challenges in the emerging circular economy. BENVIC provides new solutions in recycling and biosourcing - helping circular applications find just the right material fit - each and every time.



To get more

