# Technical Data Sheet

## Product Description

Anbio COP03 is a degradable polymer that may be used for blown film processing. Applications include: Rollbags, Compost bags, Heavy Weight Shopping bags – very thin guage. It is a compounded polymer blend incorporating two biopolymer materials: PLA and PBAT. The degradation products are carbon dioxide, water and biomass which will occur by natural process in composting environment.

## Features:

- Good Processing and Stronger Tensile and Tear properties
- Does not produce noxious off gas
- Agency rating: US FDA 175.300 EU 10/2011 EC 1907/2006
- In-line drying is needed to control moisture which will cause processing issues
- Good Printability without pre-treatment.
- Good Weldability
- Meets requirements for compostable degradable polymers: DIN EN 13492 and ASTM D6400
- Bulk storage possible in dry silo (maintaining a -30 $^{0}$F dew point).

| Physical Property | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.365 | g/cc | ASTM D792 |
| Melt Flow Index (MFI) (190 °C/ 2.16 kg) | 7 | g/10 min | ASTM D1238 |
| Melt Temperature | 128-130 | °C | ASTM D3418 |
| Tensile Stress (MD) | 19.6 | Mpa | ISO 527-3 |
| Tensile Stress (TD) | 9.8 | MPa | ISO 527-3 |
| Elongation (MD) | 250 | % | ISO 527-3 |
| Elongation (TD) | 496 | % | ISO 527-3 |
| Tear Strength (MD) | 305 | MPa | ASTM D5587 |
| Tear Strength (TD) | 2065 | MPa | ASTM D5587 |
| Thickness (film tested) | 11 | microns | |

## Blown Film Processing

Anbio COP03 needs to be processed with low moisture content. It is recommended that the level of moisture be less than 1,000 ppm (preferable less than 700 ppm).

| Blown Film Processing | |
|---|---|
| | $^{0}$C |
| Cylinder 1 | 130~150 |
| Cylinder 2 | 150~160 |
| Mesh Screen | 150~160 |
| Dies | 160~170 |

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