

Technical Data Sheet

Name: TC- ES007

Component: PBS、 Sugarcane Fiber,

Appearance:

Resin: Nature white resin.

| Ingredient | Concentration | CAS NO. |
|------------------------------------|---------------|-------------|
| poly(1,4-butylene succinate) (PBS) | 85% | 143606-53-5 |
| Sugarcane Fiber | 15% | |

Features:

1、 100% compostable and biodegradable. EN13432, ASTM6400 and Home compost certified.

2、 No phthalate, no bisphenol A, non-toxic and pollution-free.

| Items | Standard | Unit | result |
|--------------------------|------------------|-----------------------------|----------|
| Density | ISO1183 | g/cm ³ | 1.2~1.23 |
| Melting Point | DSC, 10°C/min | °C | 105-135 |
| Melt Flow index | ISO1133 | g/10min (190 °C, 2.16kg) | ≤10 |
| Tensile Strength (MD) | ISO527 | MPa | ≥30 |
| Tensile Strength (TD) | ISO527 | MPa | ≥25 |
| Elongation at Break (MD) | ISO527 | % | ≥100 |
| Elongation at Break (TD) | ISO527 | % | ≥150 |
| Flexural Modulus | ISO178 | MPa | 20 |
| Shore Hardness | ASTM D-785 | R scale | 60 |
| Impact Strength | ASTM D-256 | Kg.cm/cm ³ | 12 |