

# PBS Fibre

## Provisional Technical Data Sheet

PBS is a melt-spun bio-based staple fibre composed of Polybutylene succinate (PBS) and blends of PBS. The fibre has been designed for use in different applications (e.g. Nonwovens for technical applications).

PBS is composed of:

- PBS as the main component (> 55% w/w, up to 100% w/w)
- Other biopolymers as processing aids (< 40% w/w)\*
- Up to 5% additives\*

\*optional depending on customer specification

Due to the specific melting behaviour (low melting point) of this fibre type, it can be used as a melt binding fibre.

Compostability must be tested on the final product/application.

### Fibre characteristics

<b>Fibre cross section</b>	Round-shaped
<b>Denier (dTex)</b>	7 – 25
<b>Staple length (mm)</b>	6 – 92
<b>Tenacity (cN/tex)</b>	6 – 15
<b>Elongation at break (%)</b>	> 60
<b>Melting point (°C)</b>	110 – 120
<b>Specific gravity (g/cm<sup>3</sup>)</b>	1.24 – 1.26
<b>Shrinkage (% , 105 °C/10 min)</b>	< 15

### PBS Fibre

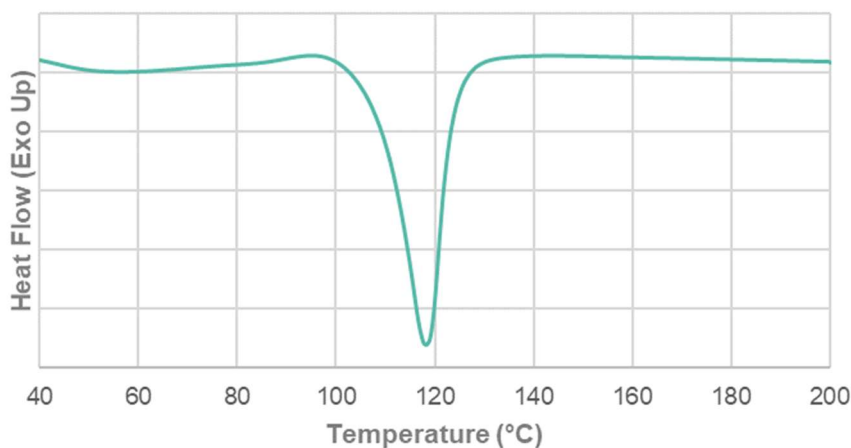


Figure 1: Example of a DSC curve, heat cycle, heating rate 20°C/min