

PBS Fibre

Provisional Technical Data Sheet

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

This type is composed of:

- PBS as the main component (> 55 % w/w)
- Other Biopolymers as processing aid (< 40 % w/w)
- Up to 5 % additives

Due to the specific melting behavior (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

Fibre cross section	Round-shaped
Denier (dTex)	7 – 25
Staple length (mm)	6 – 92
Tenacity (cN/tex)	6 – 15
Elongation at break (%)	> 60
Melting point (°C)	110 – 120
Specific gravity (g/cm³)	1.24 – 1.26
Shrinkage (% , 105 °C/10 min)	< 15

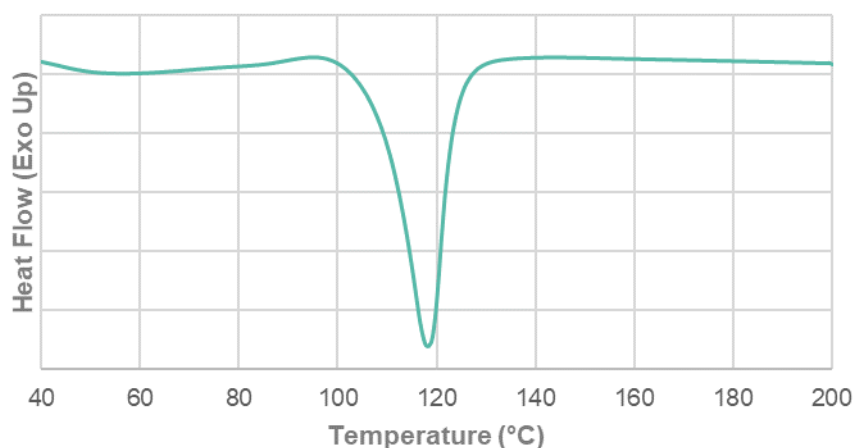


Figure 1: Example of a DSC curve, heat cycle, heating rate 20 °C/min