

## Technical data sheet

**Product name:** Bio-Flex® F 1801  
**Date of issue:** 17 January 2018

Version: 1.0

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® F 1801  
**Use of product:** Biodegradable and home compostable polymer compound suitable for blown film applications. Use in applications such as fruit bags.  
**Manufacturer:** FKUR Kunststoff GmbH  
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### Film properties (thickness 23 µm, BUR 2.3)

Tensile modulus MD/TD	300 / 160	[MPa]	ISO 527-3
Tensile strength (yield stress) MD/TD	30 / 37	[MPa]	ISO 527-3
Tensile strain at tensile strength MD/TD	400 / 570	[%]	ISO 527-3
Tensile stress at break MD/TD	30 / 36	[MPa]	ISO 527-3
Tensile strain at break MD/TD	410 / 570	[%]	ISO 527-3
Elmendorf tear resistance MD/TD	85 / 35	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	570	[N/mm]	ASTM D 3420

MD= machine direction, TD = transverse direction

The values listed have been established on films at standard temperature and humidity conditions.

### Physical properties

Melt flow rate (190 °C/2.16 kg)	1.0 - 4.0	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	1.1 - 4.3	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.25	[g/cm³]	ISO 1183

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The figures should be regarded as guide values only. Under certain conditions the properties can be influenced to a significant extent by the processing conditions.

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