

## Technical data sheet

**Product name:** Bio-Flex® FX 1821  
**Date of issue:** 14 March 2018

Version: 1.2

### Designation of product, preparation and manufacturer

**Trade name:** Bio-Flex® FX 1821

**Use of product:** Biodegradable and home compostable polymer compound. Certified as home compostable according to EN 13432 (at ambient temperature) with a maximum thickness of 32 µm. Suitable for blown film applications.

**Manufacturer:** FKUR Kunststoff GmbH  
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### Film properties (thickness 30 µm, BUR 2.3)

Tensile modulus MD/TD	150 / 110	[MPa]	ISO 527-3
Tensile strength (yield stress) MD/TD	23 / 21	[MPa]	ISO 527-3
Tensile strain at tensile strength MD/TD	500 / 570	[%]	ISO 527-3
Tensile stress at break MD/TD	23 / 21	[MPa]	ISO 527-3
Tensile strain at break MD/TD	500 / 570	[%]	ISO 527-3
Elmendorf tear resistance MD/TD	100 / 180	[N/mm]	ASTM D 1922
Impact strength (Spencer Impact Test)	240	[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)	2.0 - 5.5	[g/10 min]	ISO 1133
Melt volume rate (190 °C/2.16 kg)	1.5 - 4.5	[cm³/10 min]	ISO 1133
Melting temperature	> 155	[°C]	ISO 3146-C
Density	1.38	[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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